**machine number** | IQB27FW

# zenith

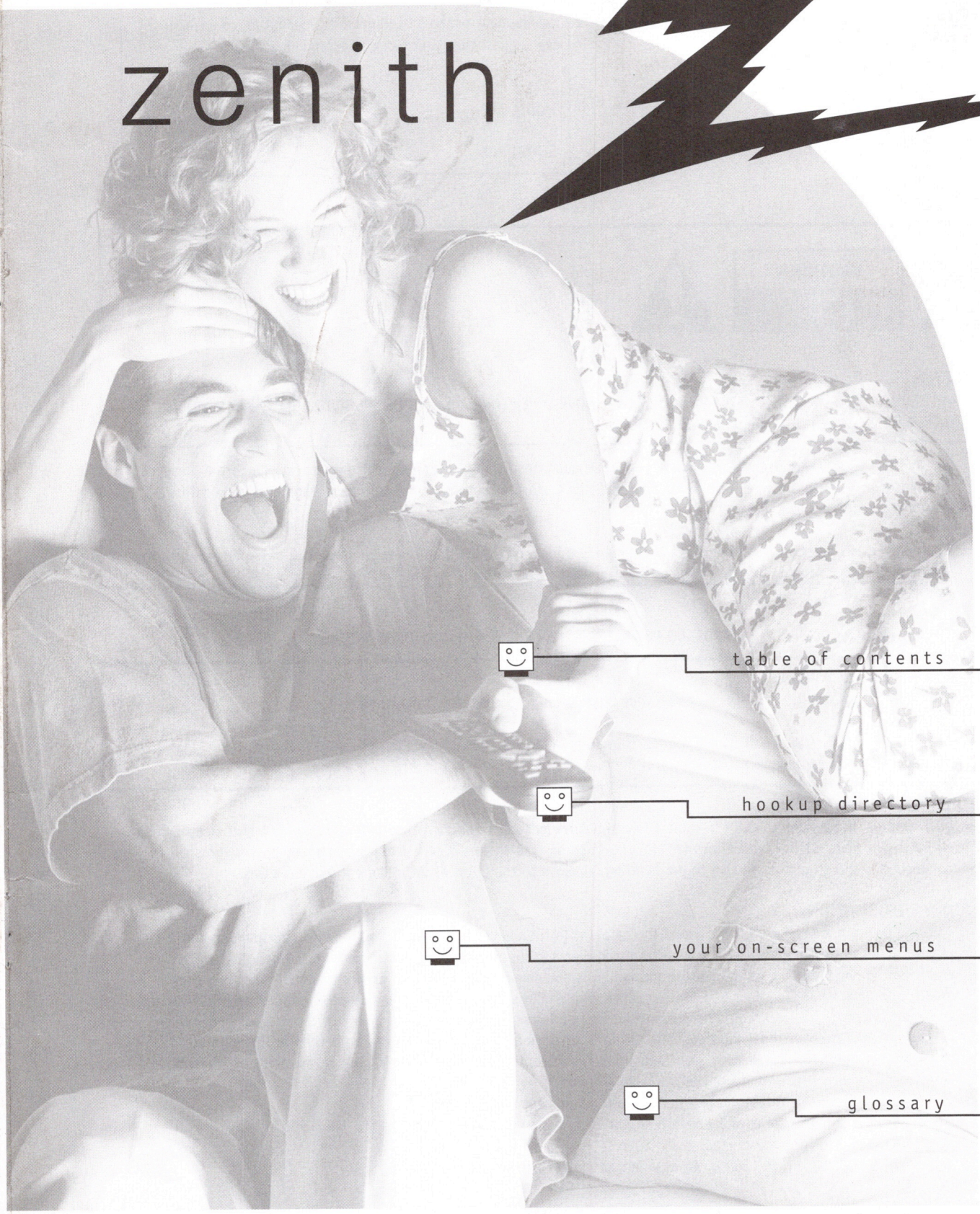



table of contents page 5

hookup directory page 6

your on-screen menus page 18

glossary page 49


operating guide / warranty

**RECORD YOUR MODEL NUMBER**
**(Now, while you can see it)**

The model and serial number of your new TV are located on the back of the TV cabinet. For your future convenience, we suggest that your record these numbers here:

MODEL NO._____

SERIAL NO._____

**WARNING**
RISK OF ELECTRIC SHOCK
DO NOT OPEN

## WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

**POWER CORD POLARIZATION:**

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

**NOTE TO CABLE/TV INSTALLER:**

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

**REGULATORY INFORMATION:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:**

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

# IMPORTANT SAFETY INSTRUCTIONS

**Important safeguards for you and your new product**

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this operating guide can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

## 1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

## 2. Follow Instructions

All operating and use instructions should be followed.

## 3. Retain Instructions

The safety and operating instructions should be retained for future reference.

## 4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

## 5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

## 6. Water and Moisture

Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

## 7. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

## 8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

## 9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

## 10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

## 11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

## 12. Line-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

## 13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

(Continued on next page)

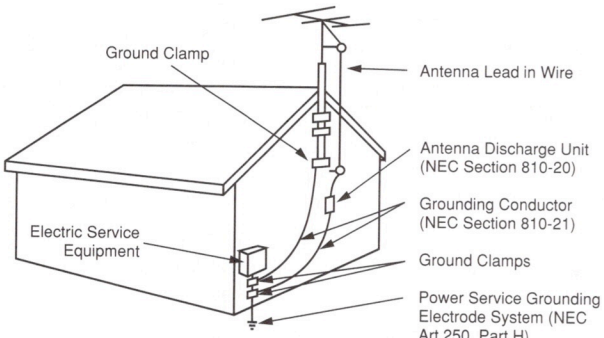
# IMPORTANT SAFETY INSTRUCTIONS

(Continued from previous page)

## 14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

**Example of Grounding According to National Electrical Code Instructions**




NEC - National Electrical Code

## 15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

## 16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

## 17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

## 18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

## 19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

## 20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

## 21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

## 22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

## 23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

## 24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

## Table Of Contents

*Turn to the next page to begin setup of your Entertainment Machine™*


Safety Warnings . . . . . 2
Important Safety Instructions . . . . . 3 - 4
Table of Contents . . . . . 5

### Step 1. Hook Up TV

**Hookup Directory** . . . . . 6
TV and other Equipment Hookups
- Antenna . . . . . 7
- Cable service . . . . . 8
- Antenna with VCR . . . . . 9
- Cable Service with VCR . . . . . 10
- Super VHS VCR/Digital Video Disk Player . . . . . 11
- Component Video / Stereo Connection . . . . . 12

### Step 2. Channel Search and Reception Setup

**EZ Program** . . . . . 13
(Select Antenna, or cable service and perform channel search)
Remote Control TV Mode Key Functions . . . . . 14
Remote On-Screen Menu Operation . . . . . 15
Front Panel Controls . . . . . 16
Selecting Viewing Sources . . . . . 17
On-Screen Menus/Displays Overview . . . . . 18
On-Screen Displays . . . . . 19

### Step 3. Customize Your TV's Features

**Channel Menu** (Starts with page 13, EZ Program)
- EZ Program . . . . . 13
- Ch. Add/Del . . . . . 20
- Ch. Labels . . . . . 21
- Ch. Surf . . . . . 22

**Picture Menu** . . . . . 23
- **EZ Picture:** EZ Eye, Normal, Movie, Preset, Video Game, Sports, Weak Signal, Night Time, Custom.
- **Video Filter:** On, Off.
- **Color Temp:** Warm, Medium, Cool
- **Picture Pref:** Contrast, Brightness, Color, Tint, Sharpness.

**Sound Menu** . . . . . 24
- **MTS:** Mon, Stereo, SAP (Second Audio Programming)
- **EZ Sound:** News, Theater, Music, Custom.
- **EZ Soundrite:** On, Off.
- **Sound Pref:** Balance, Headphone Volume, Equalizer = Treble, Mid-Range, Bass.

**Time Menu** . . . . . 25
Clock Set, On Time, Off Time, On/Off Time.
**Parental Control Menu** . . . . . 26
Restricts viewer programming.
**Special Menu**
- Language . . . . . 28
- Captions, Caption/Text . . . . . 29
- Main Source . . . . . 30
- PIP Operation . . . . . 31
- XDS Display . . . . . 34
- EZ Help . . . . . 35
- EZ Demo (On-screen menus overview) . . . . . 36

Sleep Timer . . . . . 37
**Remote Control** Programming . . . . . 38 - 44
Maintenance . . . . . 45
Trouble Shooting . . . . . 46 - 47 - 48
Glossary . . . . . 49
Notes . . . . . 50
Zenith Accessory Products . . . . . Inside Back Cover
Warranty . . . . . Back Cover


**Features on this TV also include:**

PIP - *2-Tuner Picture-in-Picture, see page 33.*

Programmable Remote Control - *Remote may control up to 7 products, see page 38.*

*Extended data service (XDS) shows in-depth program information, see page 34.*

**EZ Features: Designed to make your viewing experience less work; see the EZ Help menu on page 35.**

| | |
|---|---|
| EZ Program | Finds channels in your area automatically. |
| EZ Picture | Customizes video level settings. |
| EZ Sound | Adjusts sound based on program. |
| EZ SoundRite | Maintains and even sound level during programming volume variances. |
| EZ Mute | Displays Closed Captions/Text selection when TV sound is mute, while picture remains. |
| EZ Help | Offers solutions to common problems in one convenient menu. |
| EZ Demo | Shows menus and displays on this TV. |

Note: Design and specifications are subject to change without prior notice.




Entertainment Machine™ is a trademark of Zenith Electronics Corporation.

## Hookup Directory

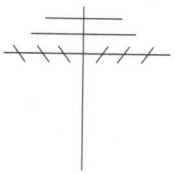
*This page directs you to the appropriate page for hook up your Entertainment Machine*

### IMPORTANT!!

Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number.
Note: Design and specifications are subject to change without prior notification.

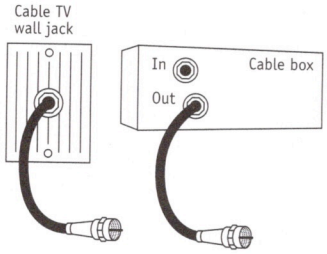
**Antenna only**

If you are using an antenna and no other equipment, go to . . . . . page 7



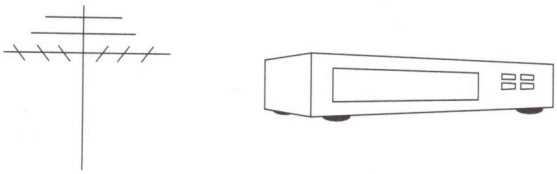
**Cable only**

If you subscribe to cable service and no other equipment, go to . . . . . page 8



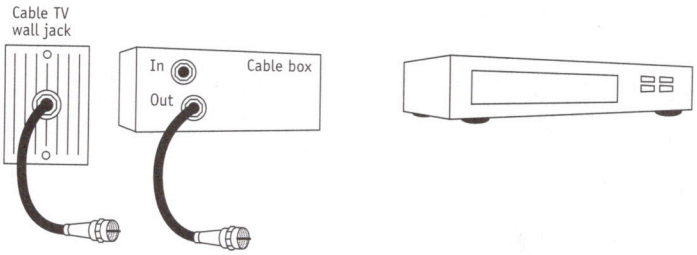

**Antenna with VCR**

If you are using an antenna and have a VCR, go to . . . . . page 9



**Cable and VCR**

If you subscribe to cable service and have a VCR, go to . . . . . page 10




**S-VHS/DVD/Stereo**

If you have a Super VHS VCR, a DVD Player, go to . . . . . page 11

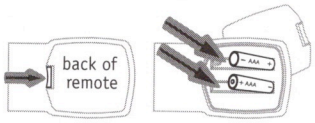
Component Video (RGB) Connection / Stereo Audio equipment, go to . . . . . page 12

# Hook Up Cable Service (CATV)

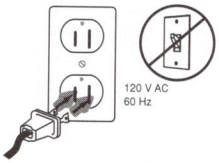
*Connect Cable Service to your Entertainment Machine*

**1** Hook up your Entertainment Machine, see diagrams at right.

**2** Remove the back of the remote and put in two AAA batteries.




**3** Plug in your TV. Do not plug it into a switched outlet.



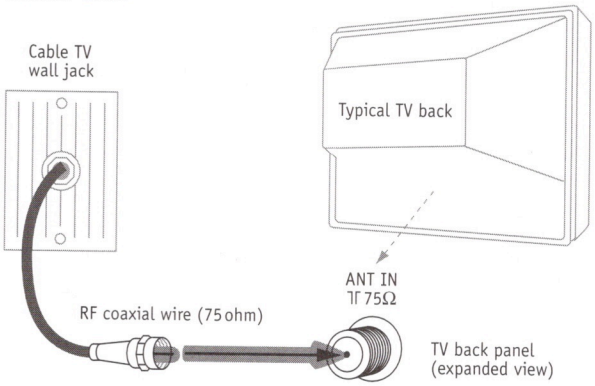

**4** Go to page 13 to EZ Program your Entertainment Machine.

*If you're using a cable box, leave your TV on channel 3 or 4 and use your cable box to change channels.*

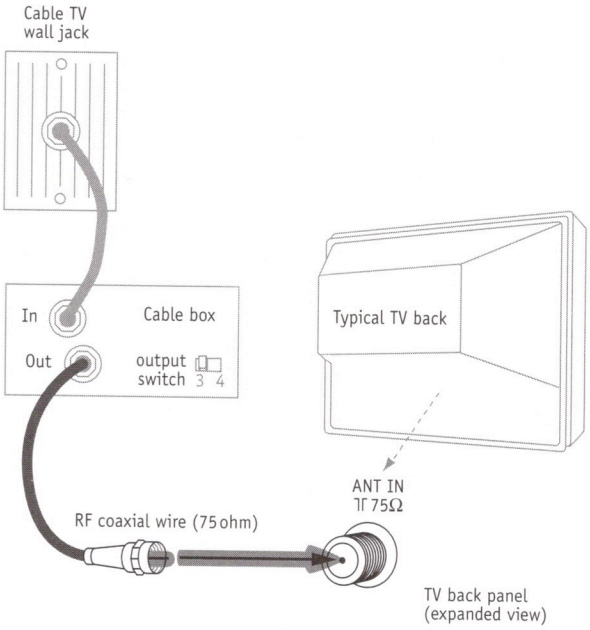
*Remember to set the cable box output channel switch to channel 3 or 4.*

*If you're using a cable box, EZ Program (page 13) might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!*

## Without Cable Box




## With Cable Box




**Mini glossary**

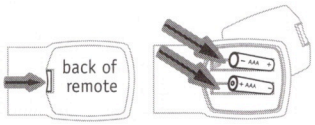
CABLE SERVICE — The wire that supplies all your cable TV (CATV) stations.

## Hook Up an Off Air Antenna

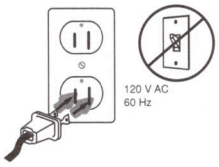
*Connect an off air antenna to your Entertainment Machine*

**1** Hook up your Entertainment Machine, see diagrams at right.

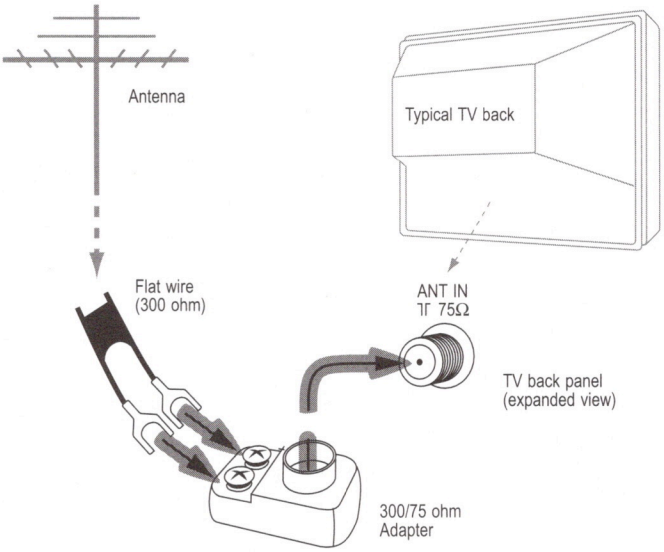
**2** Remove the back of the remote and put in two AAA batteries.




**3** Plug in your TV. Do not plug it into a switched outlet.



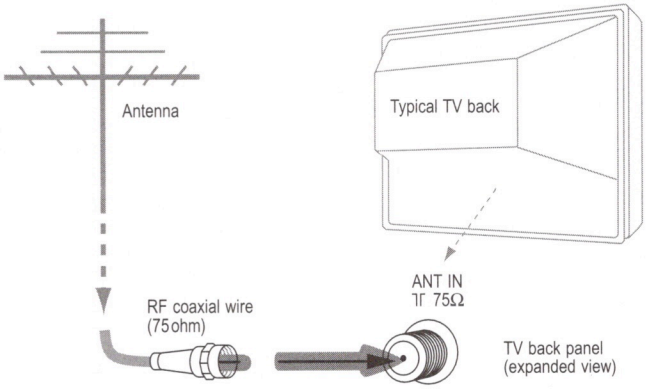

**4** Go to page 13 to EZ Program your Entertainment Machine.



*If you have a 75 ohm RF cable, then you don't need any adapters!*

*Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.*

*A 300 to 75 ohm adapter is not included with your Zenith Entertainment Machine.*




### Mini glossary

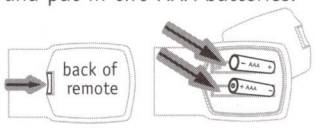
| | |
|---|---|
| 75 OHM RF CABLE | The wire that comes from an off air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV. |
| 300-75 OHM ADAPTER | A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end. |

## Hook Up Antenna and a VCR

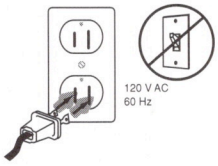
*Connect your off air antenna and VCR to your Entertainment Machine*

**1** Hook up your Entertainment Machine, see diagrams at right.

**2** Remove the back of the remote and put in two AAA batteries.




**3** Plug in your TV. Do not plug it into a switched outlet.




**4** Go to page 13 to EZ Program your Entertainment Machine.

*Remember to set the VCR output channel switch to channel 3 or 4.*

*Video sources provide better picture and sound.*

*Without A/V cable hookup, VCRs will not play videocassettes in stereo sound.*

Antenna

Antenna

Round wire (75 ohm)

Flat wire (300 ohm)

300/75 ohm Adapter

VCR back

VCR back A/V panel

In

output switch 3 4

Out

Audio R-L Out

Video Out

Typical TV back

RF coaxial wire (75 ohm) not included with TV

S-INPUT

(R)-AUDIO-(L) VIDEO

OUT

IN 2

IN 1

ANT IN 75Ω

(MONO)

S-OUT

TV back panel (expanded view)

A/V cables *not included with TV*

HEADPHONE S-INPUT VIDEO L/MONO - AUDIO - R IN 3

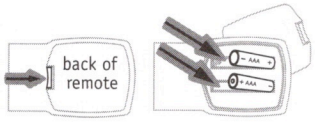
Side input jacks are also available for S-Video, Video, R-L Audio, and Headphones.

## Hook Up Cable (CATV) and a VCR

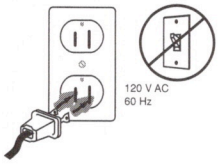
*Connect Cable service and a VCR to your Entertainment Machine*

**1** Hook up your Entertainment Machine, see diagrams at right.

**2** Remove the back of the remote and put in two AAA batteries.




**3** Plug in your TV. Do not plug it into a switched outlet.




**4** Go to page 13 to EZ Program your Entertainment Machine.

*Leave your VCR and your television tuned to channel 3 or 4 and use the cable box to change channels.*

*Remember to set the cable box output channel switch to channel 3 or 4.*

*Video sources provide better picture and sound.*

*No A/V cables are included with your Zenith Entertainment Machine. Without A/V cable hookups, VCRs will not play videocassettes in stereo sound.*

Cable TV wall jack

RF coaxial wire (75ohm)

Cable TV wall jack

In

Out

Cable box

output switch 3 4

VCR back

VCR back A/V panel

In

Out

output switch 3 4

Audio R-L Out

Video Out

Typical TV back

RF coaxial wire (75ohm) not included with TV

S-INPUT

(R)-AUDIO-(L) VIDEO

OUT

IN 2

IN 1

ANT IN 75Ω

(MONO)

S-OUT

TV back panel (expanded view)

A/V cables *not included with TV*

HEADPHONE S-INPUT VIDEO (L)MONO - AUDIO - R

IN 3

Side input jacks are also available for S-Video, Video, R-L Audio, and Headphones.

*Connecting a S-VHS VCR or DVD player to your Entertainment Machine*
*Note: S-Video, Video, R - L Audio Output jacks are also available*

## Super VHS VCR

**1** Locate the Ant In jack on the back of your S-VHS VCR. Connect the cable line coming from your wall directly to this jack.

**2** Now locate the Out to TV jack. Connect a cable from the Out to TV jack to the ANT IN jack on the back of your TV.

**3** Find the audio and S-Video jacks on the back of your S-VHS VCR, and connect them following the instructions provided with your equipment.

*Note: If your S-VHS VCR is also connected to the IN 1 jacks as well as S-INPUT jack, the picture quality is to be the condition when connected to the S-INPUT jack regardless of IN 1 VIDEO jack.*

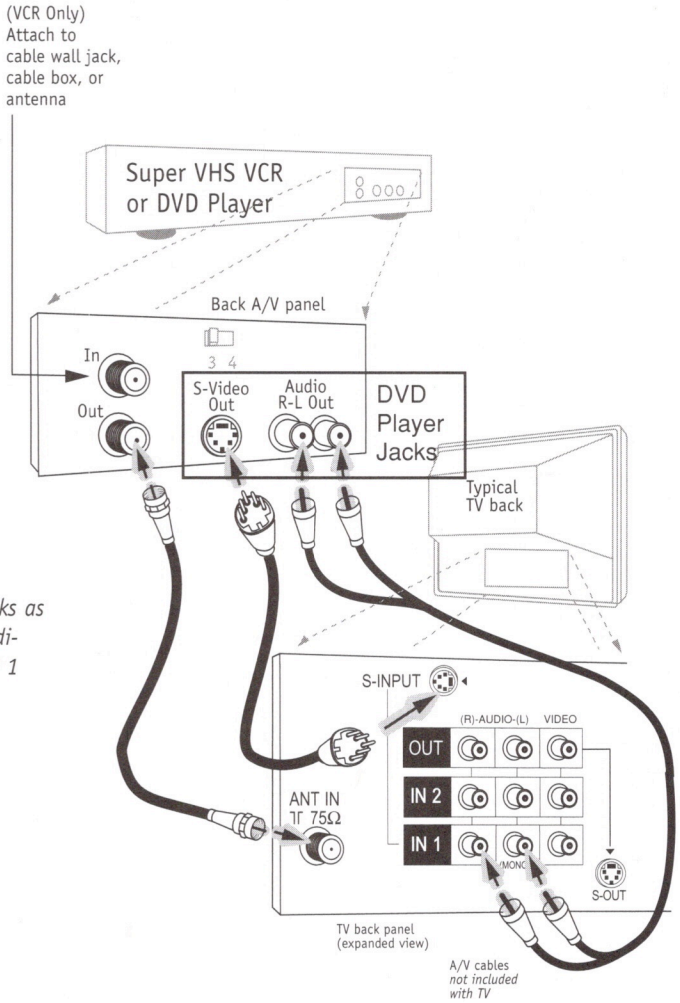
## DVD (Digital Video Disk) Player

Simply connect the S-Video/Audio out on the DVD to the IN 1 or IN 2, S-INPUT, R-L AUDIO on the TV. For Component Video, connect the Component Video Out jacks on the DVD to the COMPONENT VIDEO jacks on the TV.

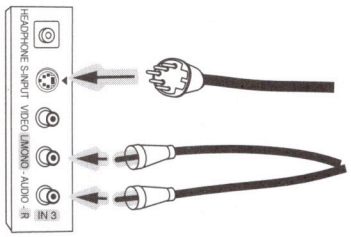
*Use Video/Audio sources for better picture and sound.*

*To use with PIP: go to the PIP Menu (page 31) and choose the jack you've connected your S-VHS equipment to as the Main or PIP source.*

*IN 1, and IN 3 have both Video and S-Input jacks. You can connect equipment to either of these input jacks but not at the same time. Use the R - L Audio input jacks with either an S-Input or Video input.*




Side input jacks are also available for S-Video, Video, R-L Audio, and Headphones.




### Mini glossary

| | |
|---|---|
| SUPER S-VHS VCR | Provides higher quality picture and sound than an ordinary VCR when connected to the S-Video in jacks. |
| DVD PLAYER | Digital Video Disks use the S-Video in jacks (or if available on the DVD, Component Video jacks) to provide the highest quality reproduction available from this technology, see next page. |

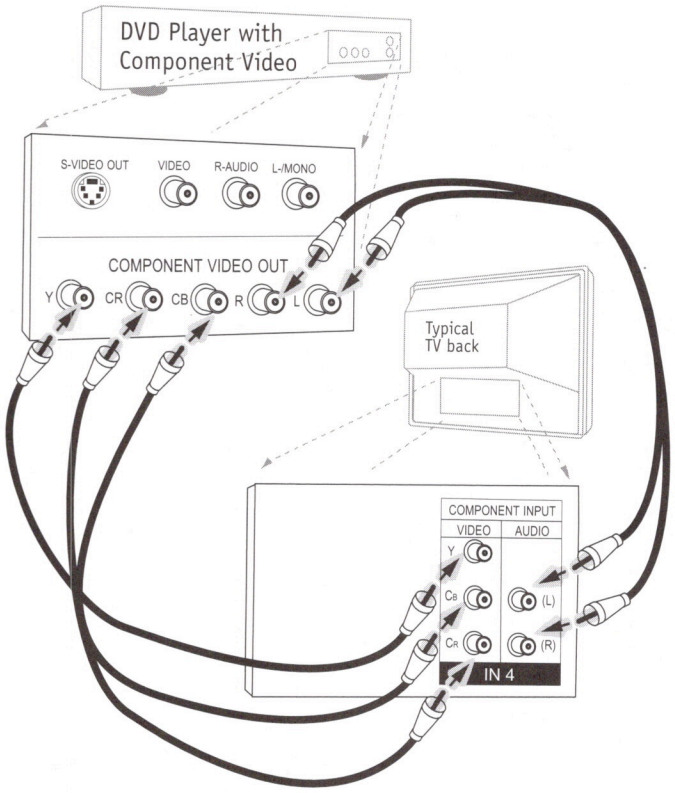
## Component Video / Stereo Connection

*Connect a Component Video DVD Player to your Entertainment Machine*

**1** For Component Video, connect the Component Video Out jacks on the DVD to the COMPONENT INPUT jacks on the TV.

*Use Video/Audio sources for better picture and sound.*

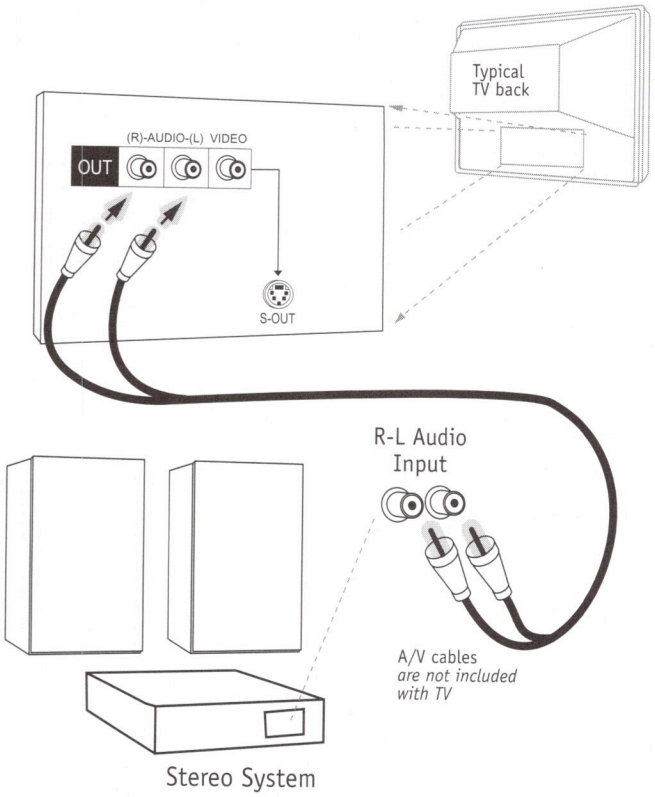
*To use with PIP: go to the PIP Menu (page 31) and choose the jacks you've connected your S-VHS (Video 1, 3) as the Main or PIP source.*




*Use your stereo to play the sound from your Entertainment Machine*

**1** Locate the jacks marked OUT, R - L AUDIO. These are for the stereo system. Connect the stereo system's cables, according to their color (red is the right channel, white the left) to these jacks.

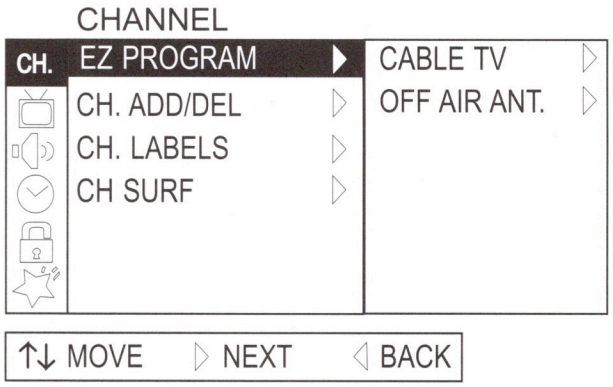
Before you begin plugging in your stereo system, it's a good idea to put it in its approximate place first. That way you know how much wire you have or will need.



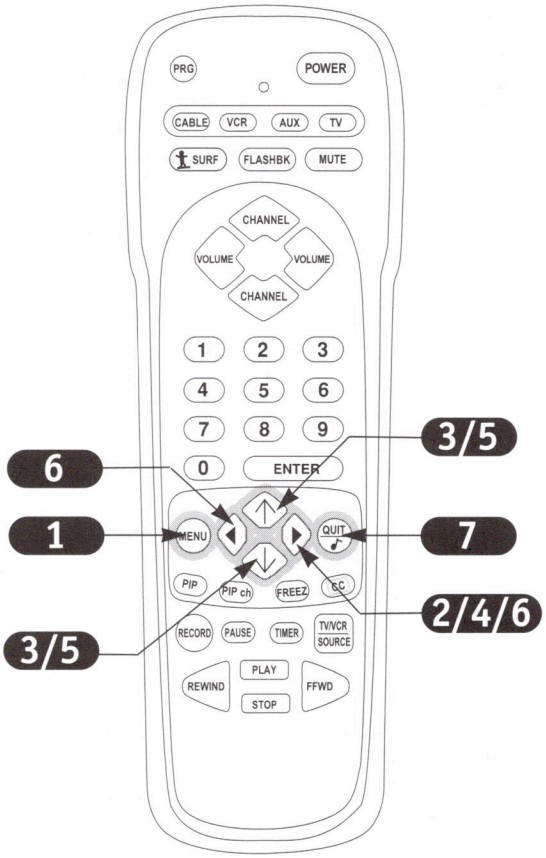
## EZ Program (Channel Search)

*Use EZ Program to automatically find and store in the TV's memory, all the channels in your area*

*Select:*
*OFF AIR ANT., If you receive TV signals over-the-air.*
*CABLE TV, If you subscribe to a cable service.*




1. Press MENU repeatedly until the CHANNEL menu appears.
2. Press the Right arrow to select the CHANNEL Menu.
3. Using the Up or Down arrow on the remote control, select EZ Program on your screen.
4. Press the Right arrow to go to the EZ Program menu.
5. Using the Up or Down arrow, choose either Off Air Ant., or Cable TV on your screen.
6. Press the RIGHT or LEFT arrow to begin the channel search.
7. When the search is complete, press QUIT repeatedly to return to TV viewing.




*Note: EZ Program finds channels being received by the TV tuner.*

*Cable will not work unless you subscribe to a cable service.*

### Mini glossary

| | |
|---|---|
| OFF AIR ANTENNA | The device receiving the program signal broadcast over-the-air. |
| CABLE TV | Your EZ Program selection, if you subscribe to a cable service. |

## Remote Key Functions in TV Mode

**Note: Pressing TV puts remote into TV operating mode**

*A quick list of the keys on your remote and what they do in TV mode, see page 44 for remote key functions in the other modes*

**PRG (PROGRAM)**
Programs your remote to operate other products. See page 38.

**FLASHBK (FLASHBACK)**
Return to the last channel viewed.

**SURF**
Press repeatedly to "Surf" through the list of channels you've selected as Surf channels in the CHANNEL menu.

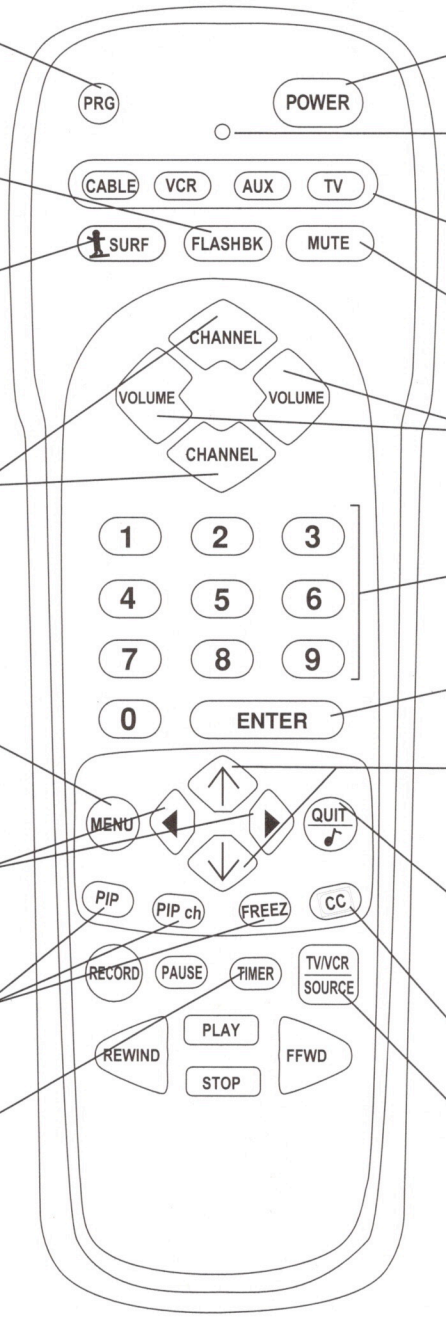
**CHANNEL UP / DOWN**
Flip through available channels.

**MENU**
Shows on-screen menus for TV mode. See page 18.

**(MENU) LEFT / RIGHT DIRECTIONAL ARROWS**
The Left/Right directional arrows *select* and *adjust* menu options.

**PIP FEATURES**
For PIP (Picture-in-Picture) operation. See page 31.

**TIMER**
Displays the Sleep Timer Menu. See page 37 for more information.




**POWER**
Turns TV On or Off.

**LED INDICATOR LIGHT**
Lights when keys are pressed.

**CABLE / VCR / AUX / TV**
Selects remote operating mode.

**MUTE**
Turns sound Off and On while the picture remains.

**VOLUME LEFT / RIGHT**
Adjusts the sound level.

**NUMBER KEYPAD**
Selects channels directly and enters numeric values for some options.

**ENTER**
Shows the Channel/Time display.

**(MENU) UP / DOWN DIRECTIONAL ARROWS**
The Up/Down directional arrows *select* and *adjust* menu options.

**QUIT**
Removes on-screen display from view.

**CLOSED CAPTIONS**
Selects Off, On, or EZ Mute.

**TV / VCR SOURCE**
Switches between watching TV through antenna/cable, or one of the video sources; Video 1, 2, 3, 4.

*Keys dedicated to VCR functions will still operate your VCR while the remote is in TV mode.*

remote control part number
**MBR3458Z**
(124-233-03)

## On-Screen Menu Operation

*Use either the remote or the TV front controls to access the on-screen menus*

PARENTAL CONTROL

| CH. | AUX. BLOCK ▶ | ✓UNBLOCKED |
|---|---|---|
| | MPAA ▷ | BLOCKED |
| | AGE BLOCK ▷ | |
| | CONTENT BLK ▷ | |
| | SET HOURS ▷ | |
| | SET PASSWRD ▷ | |
| | LOCK ON/OFF ▷ | |

↑↓ MOVE ▷ NEXT ◁ BACK

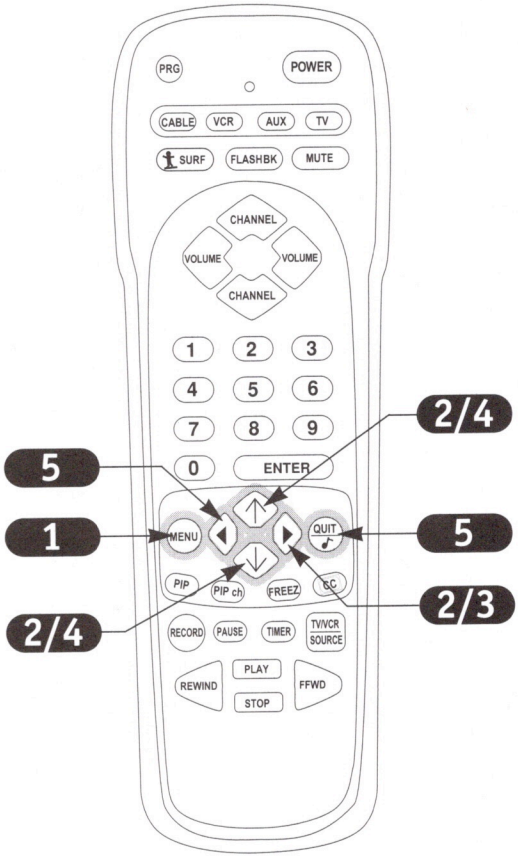
**1** Press MENU repeatedly on the remote control, to "select" one of the six main menus on your screen like PARENTAL CONTROL.

**2** Use the RIGHT directional arrow to select an option like AUX. BLOCK. (You can select the other menu options like AGE BLOCK by pressing the UP or DOWN directional arrow repeatedly.)

**3** Once the option is selected, in this case AUX BLOCK, press the RIGHT directional arrow to go to the next selection of options.

**4** Use the UP or DOWN directional arrow to choose an option, in this case BLOCKED or UNBLOCKED.

**5** When finished, press the LEFT directional arrow repeatedly to go back to the main menu or press QUIT to remove the menus and submenus from the TV screen.



*On-screen menus automatically disappear after about 20 seconds.*

*Remote must be in the TV mode for it to control the TV.*
*Press TV on the remote to select TV mode.*

### Mini glossary

| | |
|---|---|
| MENU | On-screen displays you use to program the TV features. |
| UP/DOWN | Use the Menu UP or DOWN directional arrow to "select" or highlight and pick menu options. |
| LEFT/RIGHT | Use the Menu LEFT or RIGHT directional arrow to move to or return from the menu options listings. |
| QUIT | Exits menus. |
| ENTER | Returns to the previously selected menu option on some menus. |



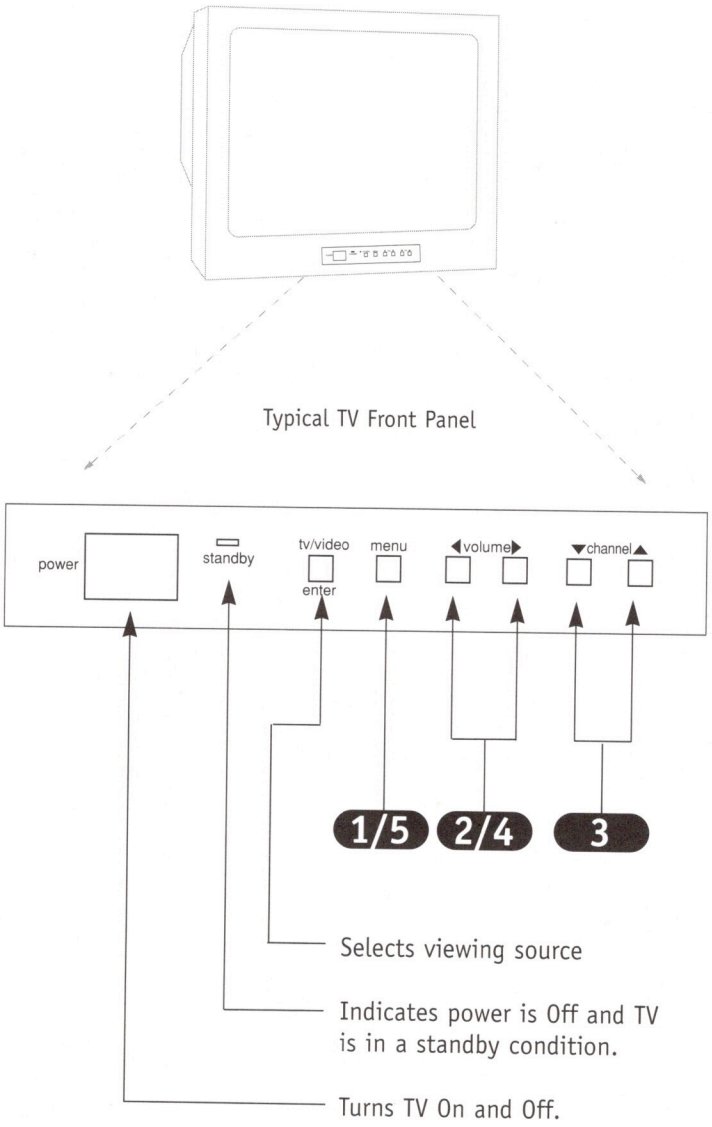
206-3529

*How to use your front control panel to operate the menus*

When using the on-screen menus, the buttons on the TV front panel correspond to the remote control keys as follows:

CHANNEL = Moves Up/Down
VOLUME = Moves Left/Right

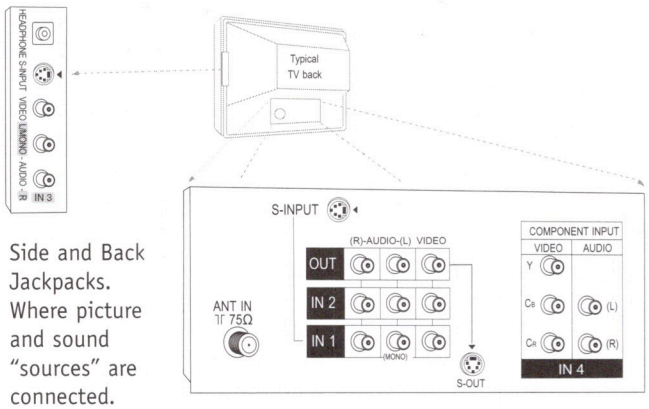
1. To access the on-screen menus, press MENU. Pressing MENU repeatedly will cycle through the available menus.
2. Once the menu you want appears, select it by pressing the RIGHT VOL (Volume) arrow.
3. Highlight the option you want using the DOWN or UP CH (Channel) arrow.
4. ADJUST or change the selected feature using the LEFT or RIGHT VOL (Volume) arrow.
5. Press MENU to exit menus or wait a few moments and the menus will disappear by themselves.



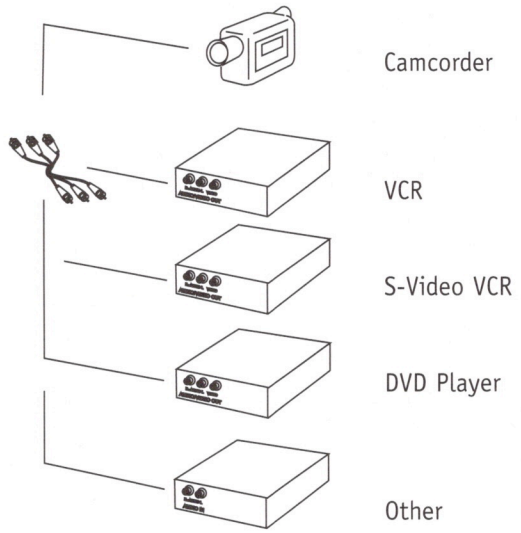

*Menus disappear after about twenty seconds. To get them back, press MENU again.*

*If you've lost your remote, you can get a new one by calling 1-800-255-6790 to purchase a replacement.*

## Selecting Viewing Sources




Side and Back Jackpacks. Where picture and sound "sources" are connected.




Typical Equipment Sources

*Pick the viewing source (picture and sound) you want to watch and hear on your Entertainment Machine*

**1** Press TV/VCR SOURCE repeatedly to choose from the available viewing sources that are connected to the TV.

Available Sources:

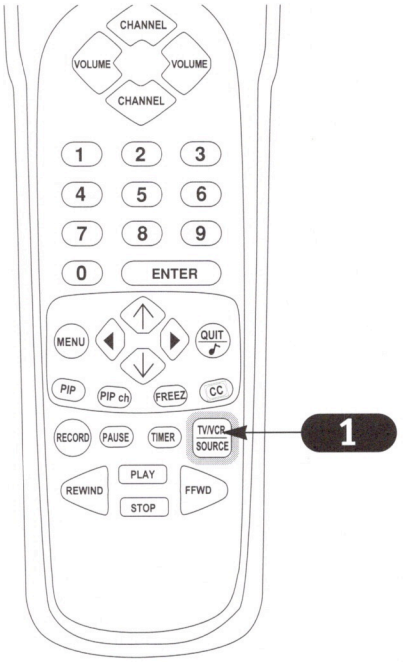
**ANT./CABLE**: ANT IN on TV back RF Jackpack, Over-the-Air Antenna or Cable service signal source.

**Video 1**: IN 1 on TV back Jackpack, Composite Audio/Video Inputs.

**Video 2**: IN 2 on TV back Jackpack, Composite Audio/Video Inputs.

**Video 3**: IN 3 on TV side Jackpack, Composite Audio/Video Inputs.

**Video 4**: IN 4 on TV back Jackpack, Component Audio/Video Inputs.



*The sources you intend to view should be turned on.*

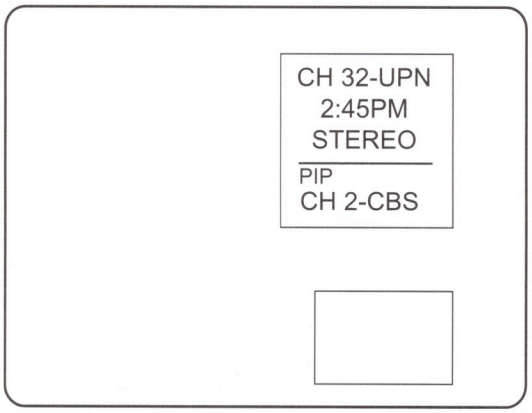
*IN 1, and IN 3 have both Video and S-Input jacks. You can connect equipment to the Video or S-Input jacks, but not at the same time. Use the appropriate IN1 or IN3, R - L Audio input jacks with either the S-Input or Video input.*

*Descriptions of the menus and displays on your Entertainment Machine*

| Menu Name | Page | Description |
|---|---|---|
| | **ON-SCREEN MENUS** | |
| **CHANNEL** | 13 | Sets the TV up and adjusts the basic features. Your options are: |
| EZ Program | 13 | Automatically finds and stores active channels you will choose using Channel Up/Down. |
| Channel Add/Del | 20 | Manually pick and choose which active channels will appear when using Channel Up/Down. |
| Channel Labels | 21 | Labels the channels with their network names (ABC, CBS, HBO, etc.). |
| Channel Surf | 22 | Creates a list of (favorite) Surf channels which will appear when pressing SURF repeatedly. |
| **PICTURE** | 23 | Adjusts the picture for different viewing situations. Your options are: |
| EZ Picture | 23 | EZ Eye, Normal, Movie, Preset, Video Game, Sports, Weak Signal, Night Time, Custom. |
| Video Filter | 23 | On, Off. |
| Color Temp. | 23 | Adjusts picture color. Your options are: Warm, Medium, Cool. |
| Picture Pref | 23 | Contrast, Brightness, Color, Tint, Sharpness. |
| **SOUND** | 24 | Customizes the sound to suit your room and taste. Your options are: |
| MTS | 24 | Mono, Stereo, SAP |
| EZ Sound | 24 | News, Theater, Music, Custom. |
| EZ SoundRite | 24 | On, Off. |
| Sound Pref. | 24 | Balance, Headphone Volume, Equalizer. |
| **TIME** | 25 | Sets the TV's clock and timer features. Your options are: |
| Clock Set | 25 | Sets the time. |
| On Time | 25 | Sets time TV will turn on automatically. |
| Off Time | 25 | Sets time TV will turn off automatically. |
| On/Off Time | 25 | Enables or disables On and Off Time features. |
| **Parental Control** | 26 | Allows parents to block any program or A/V source for up to 99 hours, with the use of a password. |
| **SPECIAL** | 28 | Goes beyond basics and customizes your Entertainment Machine's features. Your options are: |
| Language | 28 | Picks the language you want the on-screen menus to appear in. |
| Captions | 29 | Turns closed captioning on, off, or set it to come on when the television sound is muted. |
| Caption/Text | 30 | Chooses a captioning or text option. |
| Main Source | 31 | Selects which picture and sound will appear on your TV: Ant./Cable or one of the Video 4 sources. |
| PIP | 32 | Adjusts the PIP inset: size of the PIP picture, pick the source, and PIP inset's position on the screen. |
| XDS Display | 34 | If provided by broadcaster, shows program information when a channel is tuned or ENTER is pressed. |
| EZ Help | 35 | Help menu offers several features from different menus that can be adjusted on one convenient menu. |
| EZ Demo | 36 | Demonstrates the on-screen menus that control TV setup and operational features. |
| | **ON-SCREEN DISPLAYS** | |
| **Channel/Time** | 19 | Shows the current time, channel, video/incoming audio signal, and channel label if available. |
| **PIP/Channel** | 19 | If present, indicates PIP is on. |
| **Volume Display** | 19 | Shows the current sound level. |
| **Sleep Timer** | 37 | Selects the amount of time in minutes before the TV shuts itself off. |

## On-Screen Displays

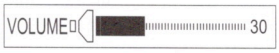
*The on-screen displays reveal the current status of your Entertainment Machine*



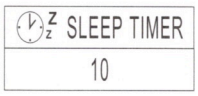

**A** **Channel/Time Display (Shown above)**
Press ENTER on the remote control to view the Channel/Time/incoming Audio signal display.

**B** **Mute Display**
Press MUTE to remove the sound.
Press MUTE again to restore the sound.

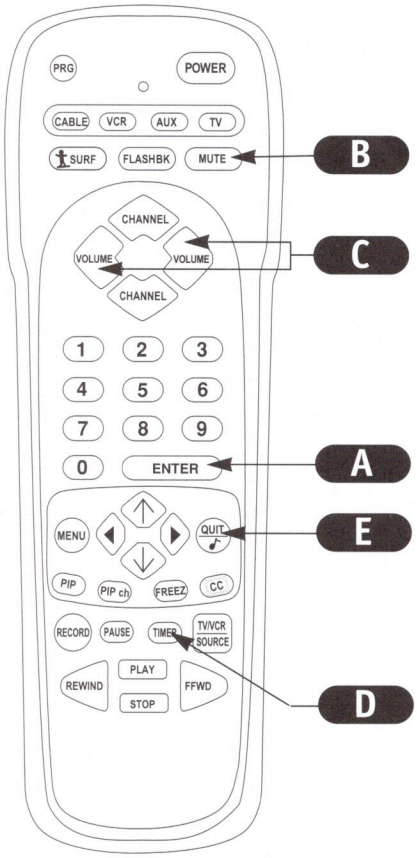
**C** **Volume Display**
Press the VOLUME Left/Right arrow on the remote control, to view the sound status.




**D** **Sleep Timer Display**
Press TIMER on the remote control to view the Sleep Timer Status Display. Press TIMER repeatedly to set the amount of time in minutes before the TV automatically turns itself off.

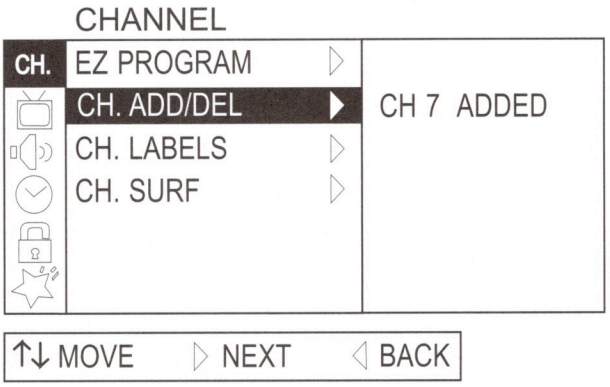



**E** **Remove On-Screen Displays and Menus**
Press QUIT to remove displays and menus and return to TV viewing, or wait a few moments and the displays and menus will automatically disappear from the screen.

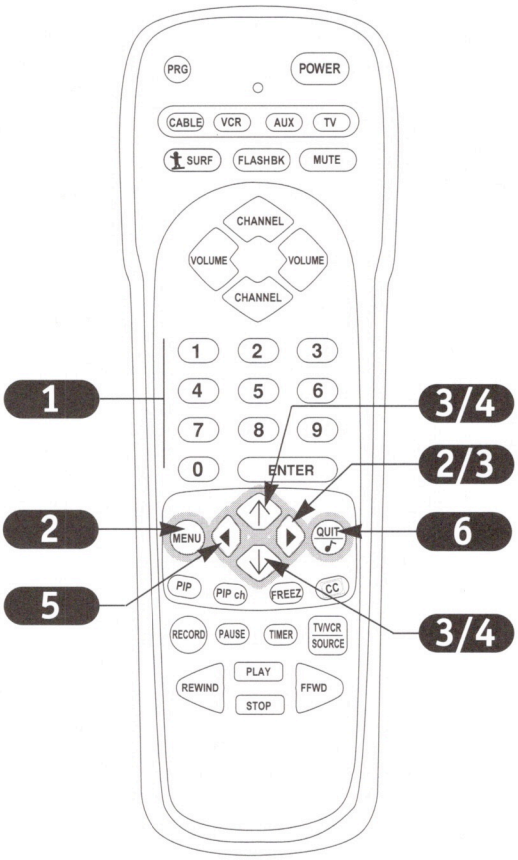


## Adding / Deleting Channels

*Customize your channel selection list*




1. Use the NUMBER keypad to go to the Channel you want to add or delete.
2. Press MENU repeatedly until the CHANNEL menu appears, then press the Right arrow.
3. Use the Up/Down arrow to highlight the Ch. Add/Del option, then press the Right arrow to go to the Ch. Add/Delete menu.
4. Use the Up/Down arrow to pick Added or Deleted.
5. Use the Left arrow to go back to the CHANNEL menu.
6. Press QUIT to remove menu when finished or go to another channel you want to add or delete by using the NUMBER keypad to select it and repeat from Step 2.



*If you've deleted a channel, it isn't gone for good. Just select it using the NUMBER keypad on the remote, or add it later.*

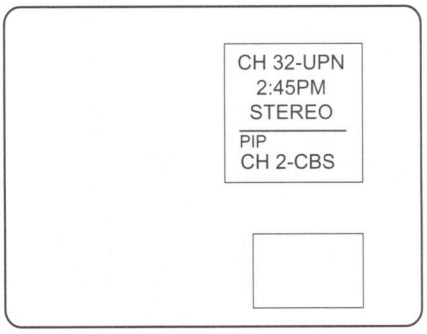
### Mini glossary

ADDED Includes new channels to the channel list that you'll scroll through when using Channel Up/Down.

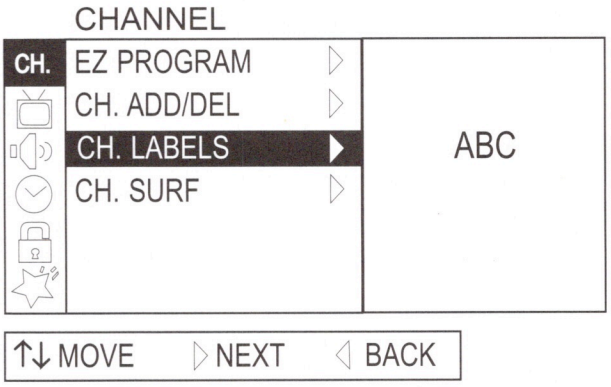
DELETED Removes channels that you don't watch from the channel list you'll scroll through using Channel Up/Down.

## Selecting Channel Labels

*Pick a preset label to help identify the network you just tuned to or are currently watching*




Channel/Time Display with Channel Labels



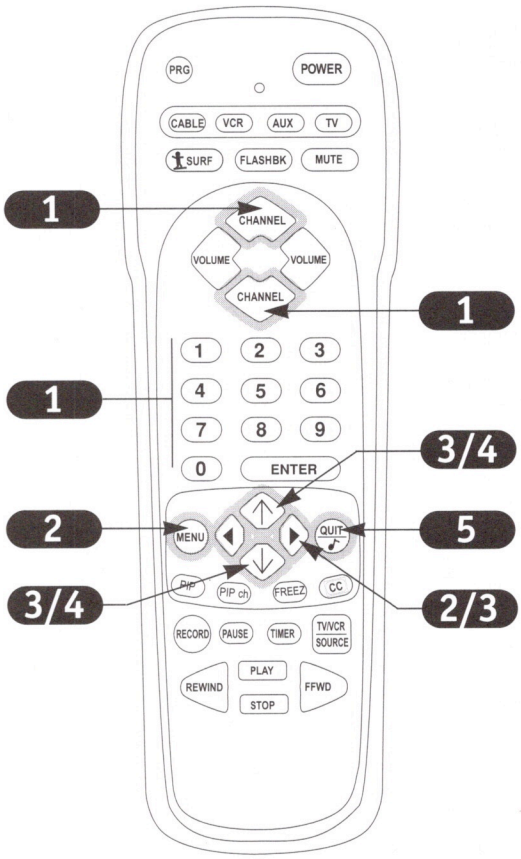

**1** Using the NUMBER keypad or the CHANNEL Up/Down arrow, pick the channel you want to label.

**2** Press MENU repeatedly to choose the CHANNEL menu, then press the Right arrow.

**3** Use the Up/Down arrow to select CH. LABELS, then press the Right arrow.

**4** **Select a Label for the Channel**
Press the Down arrow key (each press will bring up a different label) to go through the alphabetical listing, starting with A - B - C - D, etc.
Or, use the Up arrow key to go through the alphabetical listing backwards, starting with Z - Y - X - W, etc.

**5** Press QUIT to accept the label and return to regular TV viewing or use the NUMBER keypad to select another label and repeat form Step 2.



*If a channel label is picked, the Channel Label for the channel you are watching appears when you press ENTER or change to a different channel that also has a channel label; a convenient way to know which network you are viewing.*

*Some networks display their own channel labels.*

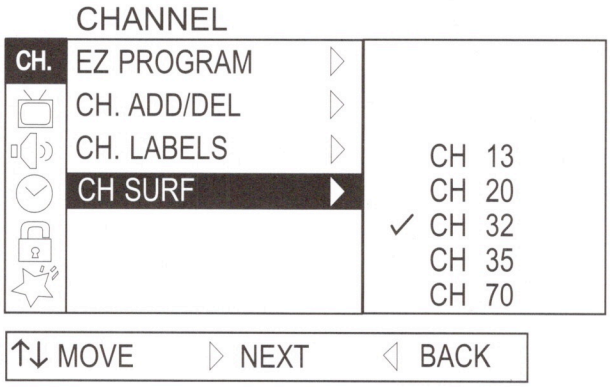
*Channel Labels do not appear for video sources.*

**Mini glossary**

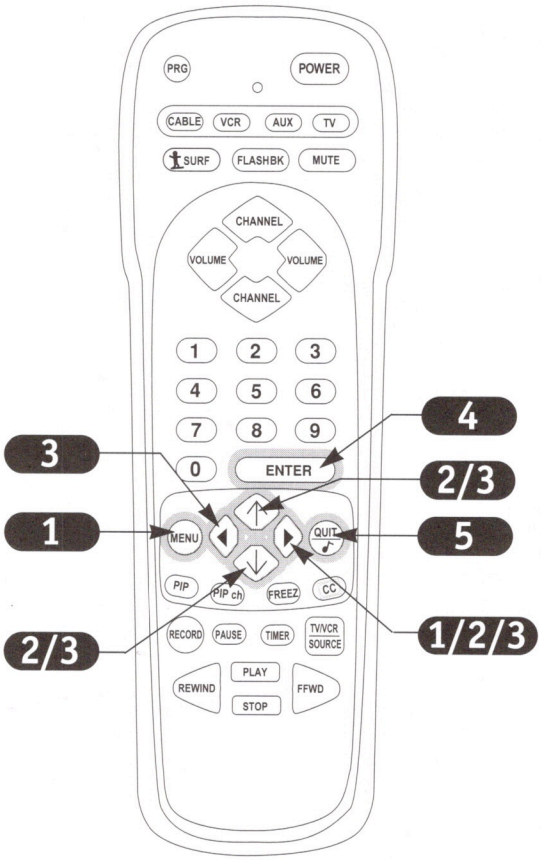
| | |
|---|---|
| ---- | This label indicates that no label has been assigned to this channel. |
| None | This label prevents any labels from appearing. |

## Selecting Surf Channels

*Pick your favorite channels and create a Surf channel list. Then when you press Surf repeatedly, only the five channels you selected as Surf channels will appear*




1. Press MENU repeatedly until the CHANNEL menu appears, then press the Right arrow.
2. Use the Up/Down arrow to highlight the CH SURF option, then press the Right arrow to go to the Ch Surf menu.
3. Use the Up/Down arrows to select the channel number position and the Left/Right arrows to set the numbers of the channels you want to also be Surf channels.
4. Press ENTER to go back to the CHANNEL menu.
5. Press QUIT to remove menu when finished.



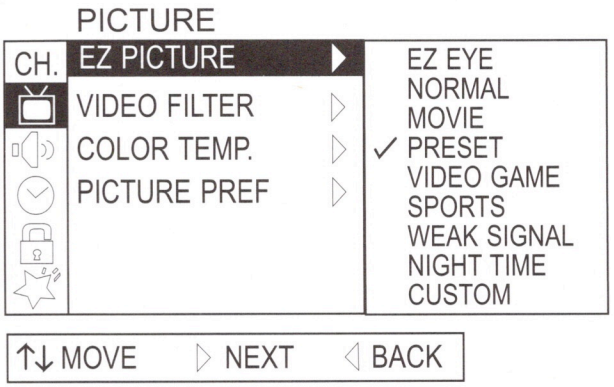
*Press SURF to go to Surf channel scan; each channel you have selected as a Surf channel will appear if you continue to press Surf repeatedly.*

**Mini glossary**

SURF — Tunes only to your favorite channels in the Surf channel list.

## Setting the Picture Menu Options

*Customize the picture to your personal viewing preferences*




**1** With the PICTURE menu on-screen, use the Up/Down arrow to select an option like EZ Picture, press the Right arrow to go to the EZ Picture menu selections.

**2** Using the Up/Down arrow, select a setting.
Your options are:

**EZ Picture:** Sets your viewing preference based on the viewed image's setting.
Options are: EZ Eye, Normal, Movie, Preset, Video Game, Sports, Weak Signal, Night Time, Custom.

**Video Filter:** Changes the amount of difference between black levels and white levels in your picture. Options are: On, Off.

**Color Temperature:** Changes the overall picture appearance. Options are: Warm, Medium, Cool.

**Picture Preference:** Customizes the appearance of your picture. Options are:

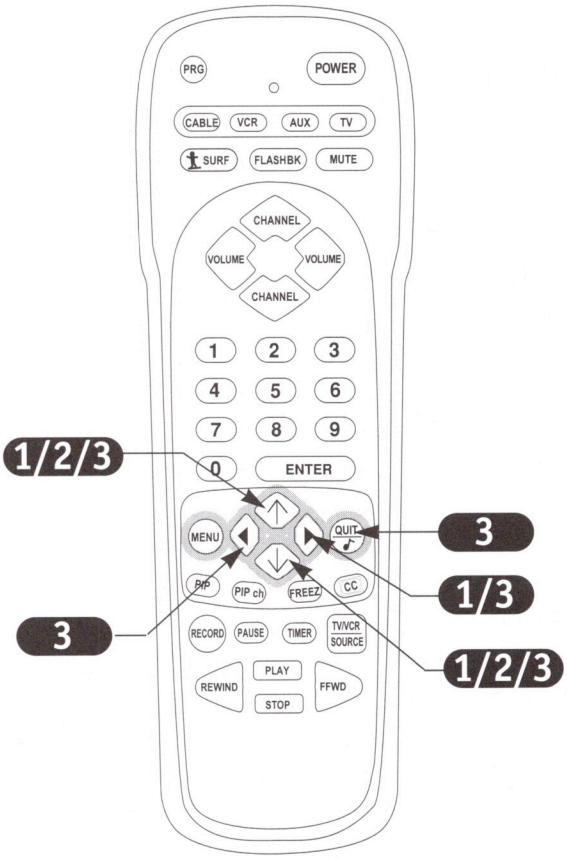
**Contrast:** Changes the amount of difference between black levels and white levels in your picture.

**Brightness:** Increases or decreases the amount of white in your picture.

**Color:** Adjusts levels of all colors.

**Tint:** Adjusts the relative amounts of the colors red and green in your picture.

**Sharpness:** Raises or lowers the definition of the picture. The lower the level, the softer the image will appear.



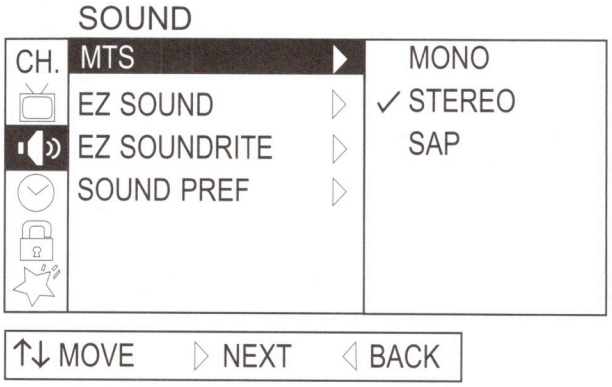

**3** After you have used the Up/Down and Left/Right arrows to select and adjust the PICTURE menu options to your preference, press QUIT to return to TV viewing.

**Mini glossary**

| | |
|---|---|
| Custom | The settings you have changed to your personal preferences. |
| Preset | Select this option to reset the video menu settings to their original levels. |

## Setting the Sound Menu Options

*Personalize the sound coming from your Entertainment Machine*



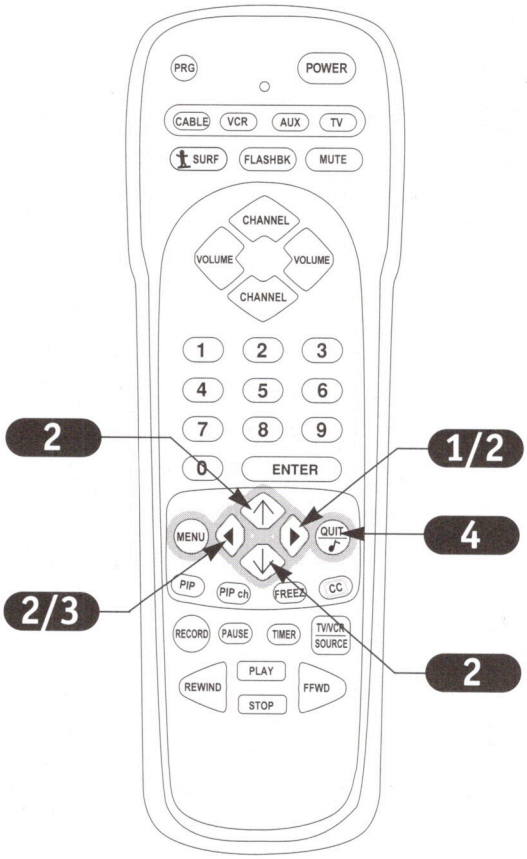

**1** With the SOUND menu selected and the MTS option highlighted, press the Right arrow.

**2** Using the Up/Down/Left/Right arrows, select your preferred settings. Choose from Mono, Stereo, or SAP.
Sound Menu Options Include:

- **MTS:** Selects the TV speakers audio output.
  Options are: Mono, Stereo, SAP.
- **EZ Sound:** Controls the audio based on the sound source.
  Options are: News, Theater, Music, Custom.
- **EZ SoundRite:** Maintains an even sound level to eliminate variances which may occur between different broadcasts and as different channels are selected.
  Options are: On, Off.
- **Sound Preference**: Set your listening preferences.
  Options are: Balance, Headphone Volume, Equalizer (adjusts Treble, Mid-range and Bass).

**3** Press the Left arrow to go back to the SOUND menu and change other option settings to your preference.

**4** Press QUIT to remove menu and return to TV viewing.



*Not all programming is broadcast in stereo sound, or has Second Audio Programming/SAP.*

*If 2nd Audio SAP is selected and none is present, audio may not be heard.*

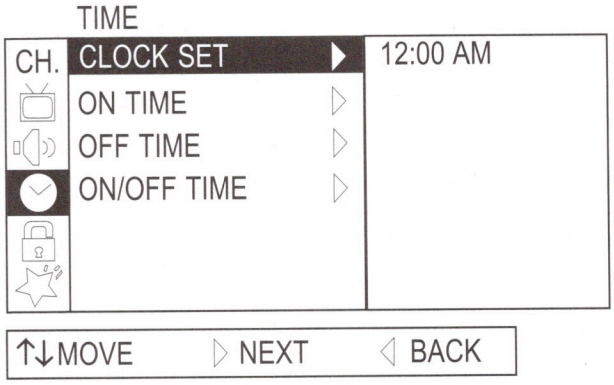
**Mini glossary**

AUDIO MODES

| | |
|---|---|
| Mono | Sound is broadcast over one audio track. |
| Stereo | Sound is broadcast over two audio tracks, divided between the left and right speakers. |
| 2nd Audio/SAP | An extra audio signal that may be transmitted in addition to the regular audio portion of a broadcast. |

## Using the Clock Features

*Set the TV's internal clock and the On/Off Timer feature so that the TV will automatically turn itself on and off at the preset times each day*




**1** In the TIME menu with the CLOCK SET option highlighted, press the Right arrow to go to the menu.

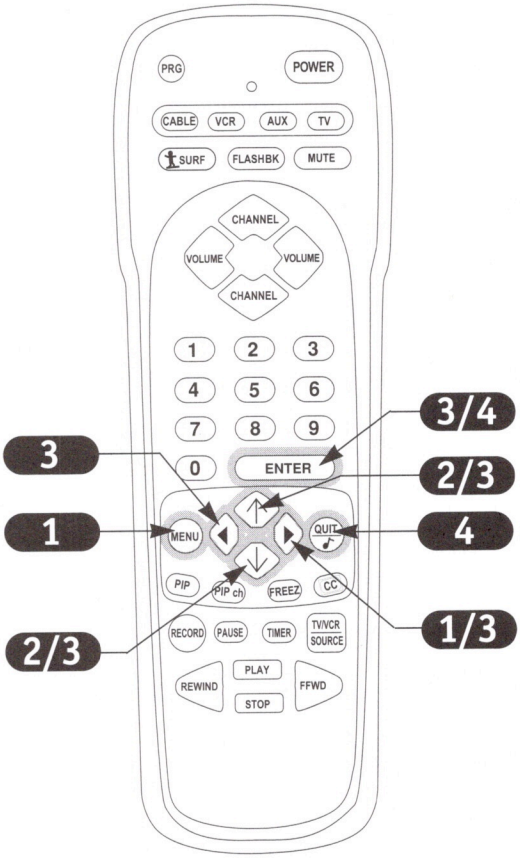
**2** Use the Up/Down arrow, to pick the current hours and AM or PM, by pressing and holding down the Up/Down arrow key until the current hours and AM or PM are selected. Release the Up/Down arrow key when the current hour and AM or PM as appropriate appear.

**3** Press the Right arrow to move the highlight to the minutes position. Press and hold down the Up/Down arrow until the current minutes are picked. Release the Up/Down arrow when the current minutes appear. Press ENTER to return to the menu and select:

**On Time Set:**
Highlight the ON TIME option. Use the method described above (Up/Down/Left/Right arrow keys) to pick a time that you want the TV to automatically turn on each day.

**Off Time Set:**
Highlight the OFF TIME option. Use the method described above (Up/Down/Left/Right arrow keys) to pick a time that you want the TV to automatically turn off each day.

**On/Off Time:**
Highlight the ON/OFF TIME option. Use the method described above (Up/Down/Left/Right arrow keys) to turn the ON/OFF TIME feature On or Off.
On: TV will automatically turn on and off at preset times each day.
Off: TV will not automatically turn on and off each day.




**4** Press ENTER to go back to the menu or QUIT to remove menu and return to TV viewing.

**Mini glossary**

| | |
|---|---|
| TIME | A four-number figure broken down into hours, minutes, and AM/PM. First two numbers are hours, last two numbers are minutes followed by AM or PM. |
| HOURS | First two numbers (and AM/PM) that are picked when setting the clock. |
| MINUTES | The second two numbers that are picked when setting the clock. |

## Parental Control Overview

*This optional feature can be used to "block" undesirable programming from appearing on your TV*
*Note: If you use this feature, PIP will not be available.*

Parental Control offers the user a wide variety of options and settings that restrict or "block" the programming that can appear on the TV. Parental Control allows the user the capability of defining which program rating they consider acceptable, to the younger or more sensitive viewer. It can be preset and turned either on or off by the user who specifies the secret 4-number code, the password. The number of hours blocked are specified. For complete coverage, General Audience and Children viewer blocks should both be programmed into the TV's memory. Viewer ratings are specified for both TV and the motion picture industry; both rating systems can be used. The ratings are based mainly on the ages of children.

### Overview

To insure complete coverage for all TV programs, (movies and regular TV shows) choose a rating for "MPAA", from the selections below AND choose ratings from the "TV Parental Guideline Rating System" on the next page, using the Age Block option for General Audiences, and for Children. In addition to those, you may wish to include additional restrictions from the Content Block menu. See the Parental Control menu, and submenus example on the next page.

### Things to Consider before Setting Up Parental Control

Determine which rating you consider acceptable to the viewer. (For example, if you choose TV-PG, all more restrictive ratings will be automatically blocked; the viewer will not be able to see: TV-PG, TV-14, or TV-MA rated programming.)

Do you want to block the auxiliary video source entirely? (Blocks the signal sent by the equipment, such as a VCR, connected to the TV Audio/Video input jacks; in the Aux. Block option.) Or leave unblocked, and have the restrictions you specified filter programming from the video source.

Block program "Content" based on individual parameters such as: Strong Dialog, Bad Language, Sex Scenes, Violence Scenes, or Fantasy Violence Scenes; in the Content Blk option.

How many hours do you want Parental Control to be active? You can set the Hours option for up to 99 hours.

Select a secret password; in the Set Password option. Use the NUMBER keys on the remote. Don't forget the password, it is the only way you can access the Parental Control menu and change rating selections, or turn Parental Control off.

Do you want Parental Control to be active all the time? If not, you can turn it on or off; with the Lock On/Off option.

*You should set Parental Control viewing restrictions for General Audiences and for Children - - both should be active at the same time.*

*Simply specifying one content block such as Sex Scenes, will not automatically block another content in the programs from appearing.*

*If you choose to leave the Aux inputs unblocked, the ratings you specify will still restrict the programming content that appears from the video sources.*

*You cannot disable Parental Control by disconnecting the TV from power. Block hours will automatically reset to the original block time setting specified if power is disconnected.*

**Mini glossary**

**MOTION PICTURE ASSOCIATION OF AMERICA (MPAA) RATING SYSTEM**

| | | |
|---|---|---|
| G | General Audiences | Content not offensive to most viewers. |
| PG | Parental Guidance Suggested | Content is such that parents may not want their children to view the program. |
| PG-13 | Parental Guidance Suggested | Program is inappropriate for preteens, with a greater degree of offensive material than a PG rated program. |
| R | Restricted viewing | Not for children under age 17. Strong elements of sex and/or violence. |
| NC-17 | Restricted Viewing | Not for children under age 17 under any circumstances. Strong sexual content. |
| X | Hard Core Films | Same as NC-17 rating. |

*Note: Zenith Electronics Corporation is not liable for any program content that appears when using this rating system; as always, user discretion is advised.*

## Using Parental Control

*After you have read the preceding page, follow instructions below to set up and activate Parental Control*

**1**

PARENTAL CONTROL

| CH. | | | | |
|---|---|---|---|---|
| | AUX. BLOCK ▷ | TO SET DATA | DIALOG ▷ | |
| | MPAA ▷ | | LANGUAGE ▷ | |
| | AGE BLOCK ▷ | | SEX SCENES ▷ | |
| | CONTENT BLOCK ▶ | | VIOLENCE ▷ | |
| | SET HOURS ▷ | | F. VIO ▶ | UN BLOCKED |
| | SET PASSWRD ▷ | | NO RATING ▷ | ✓ TV-Y7 |
| | LOCK ON/OFF ▷ | | | |

↑↓ MOVE ▷ NEXT ◁ BACK

## Follow These Instructions

Note: Use the remote control to set up Parental Control.

As shown above in the PARENTAL CONTROL menu, highlight the Content Block option, then press the RIGHT arrow.

Use the Up/Down arrow to select an option, like F. Vio (Fantasy Violence) for example, then press the Right arrow to go to the restrictions menu for Fantasy Violence.

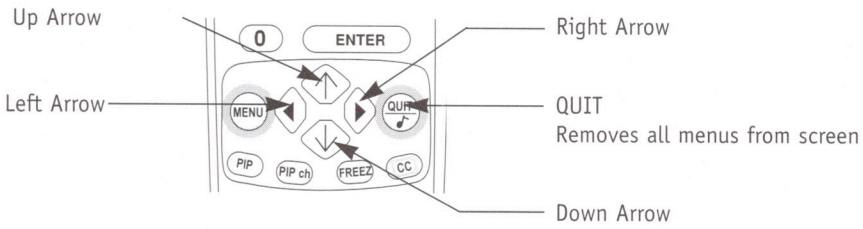
Use the Up/Down arrow to select an acceptable rating like TV-Y7. *(See the Mini Glossary, Ratings Charts on this and the previous page for rating meanings.)*

Press the Left arrow to go back to select another Content Block classification like Language for example and then choose an acceptable rating. Or, press the Left arrow repeatedly to return to the PARENTAL CONTROL menu to select and adjust other options.

After you have selected and adjusted the PARENTAL CONTROL menu options to your preferences, select and:
- Set the number of hours you want Parental Control on.
- Set your 4-number password
  - - use the NUMBERS on the remote.
- Set the Lock On/Off option to either on or off.

Press QUIT to remove menus from the screen.

*No Rating, means the broadcast does not contain any rating information. Select the "No Rating" option and block it if appropriate. PIP will not be available if Block is on!*



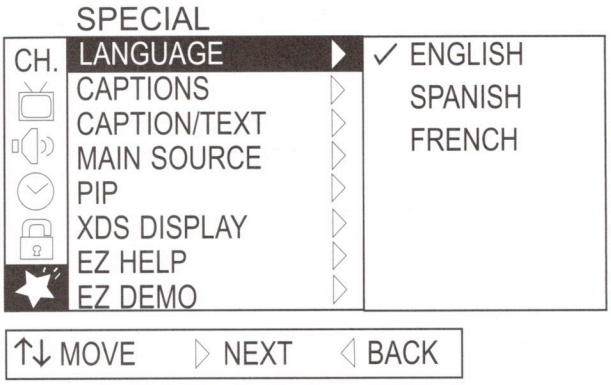

### Mini glossary

**TV PARENTAL GUIDELINE RATING SYSTEM**

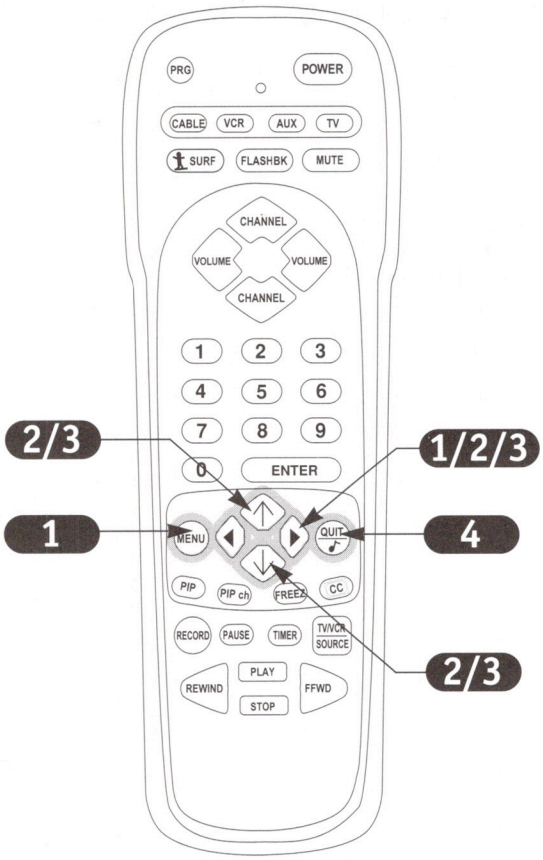
| | | |
|---|---|---|
| TV-G | General Audience | Considered suitable for all audiences; children may watch unattended. |
| TV-PG | Parental Guidance Suggested | Unsuitable for younger children, may contain: Suggestive Dialog, Bad Language, Sex, and Violence Scenes. |
| TV-14 | Parents Strongly Cautioned | Unsuitable for children under 14, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes. |
| TV-MA | Mature Audience Only | Adults only, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes. |
| **CHILDREN'S CLASSIFICATIONS** | | |
| TV-Y | Children | Considered suitable for all children under 7 years old. |
| TV-Y7 | Children 7 and over | Considered suitable for children over 7, may contain Fantasy Violence Scenes. |

## Selecting a Language for the Menus

*Choose the language you want the on-screen menus to appear in*

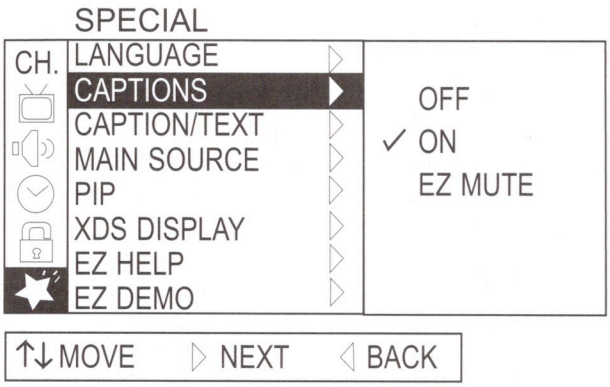


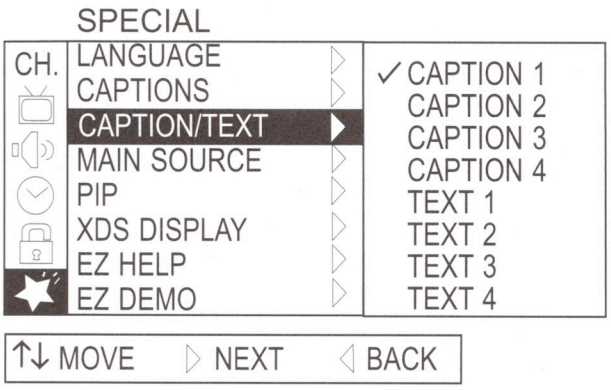

1. Press MENU repeatedly to select the SPECIAL menu, then press the Right arrow.
2. Use the Up/Down arrow to select the Language option on your screen, then press the Right arrow.
3. Use the Up/Down arrow to choose any of the following options: English, Spanish or French, then press the Right arrow.
4. Press QUIT to remove menu and to return to TV viewing.



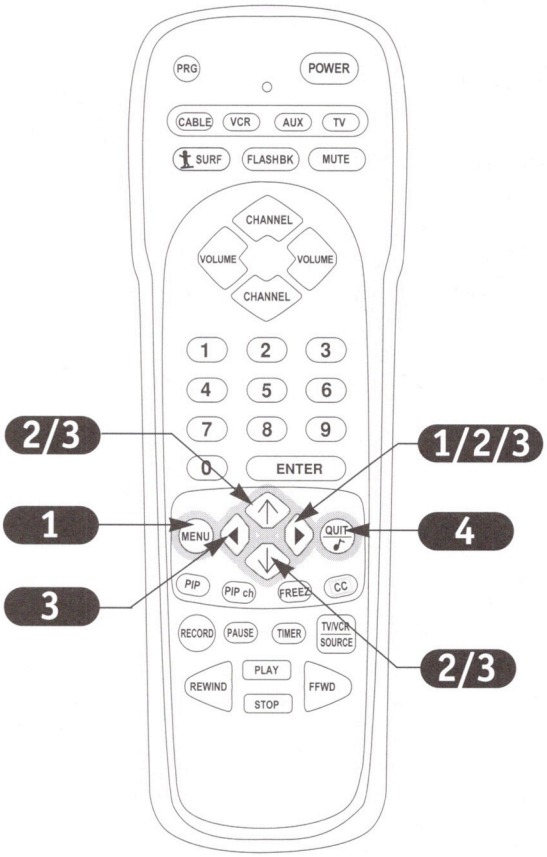
## Selecting Captions/Text Options

*Turn on Closed Captioning or Captions When Mute, then select your Closed Captions or Text option*




Caption/Text is a feature which allows your Entertainment Machine to receive various closed caption and text options provided by broadcasters. Availability and functionality of Caption/Text is determined only by the broadcaster and may not be available.




**1** Press MENU repeatedly to select the SPECIAL menu, then press the Right arrow.

**2** Use the Up/Down arrow to choose Captions, then press the Right arrow.

**3** Use the Up/Down arrow to select Off, On or EZ Mute, then press the Right arrow.
Note: If you selected either On or EZ Mute, then use the Up/Down/Left/Right arrows to choose an option from the Caption/Text menu: Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3, or Text 4. To have that option appear when the TV is muted or a program is tuned to that has Closed Captions or Text.

**4** Press QUIT to remove menu and return to TV viewing.

*Captions come in handy when the television is on mute. Standard closed captioning is available using the Caption 1 option.*

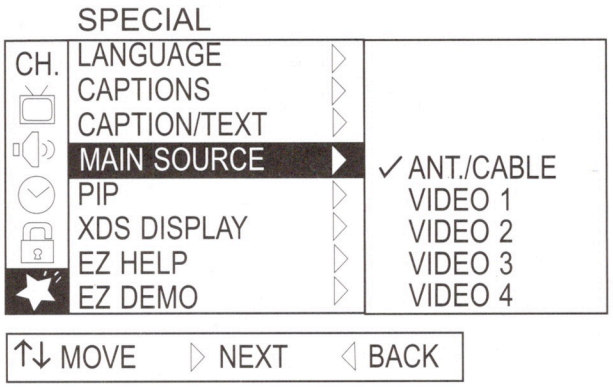
*Not all programming has closed captioning or text available; even though Captions 1, 2, 3, 4, and Text 1, 2, 3, 4 are available to broadcasters.*

**Mini glossary**

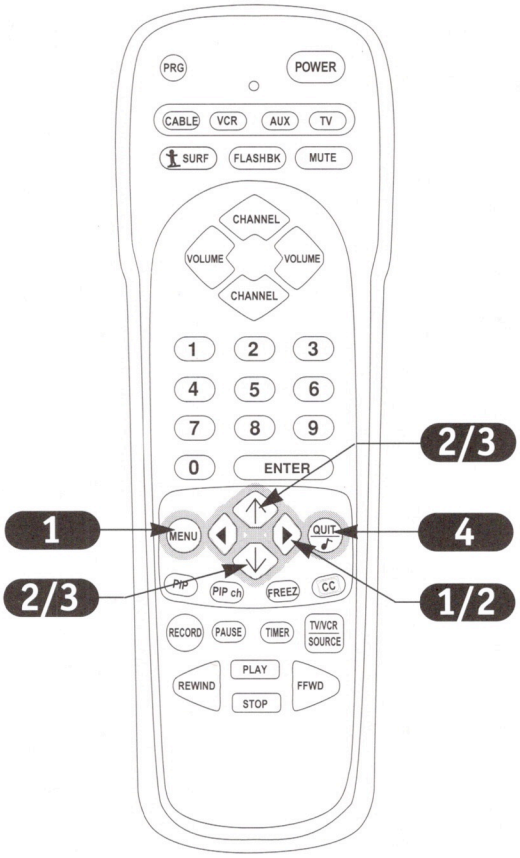
| | |
|---|---|
| CAPTIONS | The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired. |
| TEXT | The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster. |

## Selecting the Main Picture Source

*Choose the picture and sound you want to view on the Main Picture Screen*




1. Press MENU repeatedly to select the SPECIAL menu, then press the Right arrow.
2. Use the Up/Down arrow to select MAIN SOURCE, then press the Right arrow.
3. Use Up/Down arrow to select ANT./CABLE, Video 1, Video 2, Video 3, or Video 4.
4. Press QUIT to remove menus and return to TV viewing or see the next page to select a source for the PIP feature.




*Use the PIP option to select PIP's source, see the next page.*

**Mini glossary**

| | |
|---|---|
| ANT./CABLE | The source from the ANT IN jack. |
| VIDEO 1, 2, 3, 4 | The equipment connected to the video input jacks on the back or the side of the TV: VCR, DVD, camcorder etc. |

## Setting the PIP Inset Options

*Choose your PIP feature options*

SPECIAL

| CH. | | | |
|---|---|---|---|
| LANGUAGE | TO SET PIP | SIZE | ✓LARGE |
| CAPTIONS | | VOLUME | MEDIUM |
| CAPTION/TEXT | | SOURCE | SMALL |
| MAIN SOURCE | | POSITION | |
| PIP | | | |
| XDS DISPLAY | | | |
| EZ HELP | | | |
| EZ DEMO | | | |

↑↓ MOVE ▷ NEXT ◁ BACK

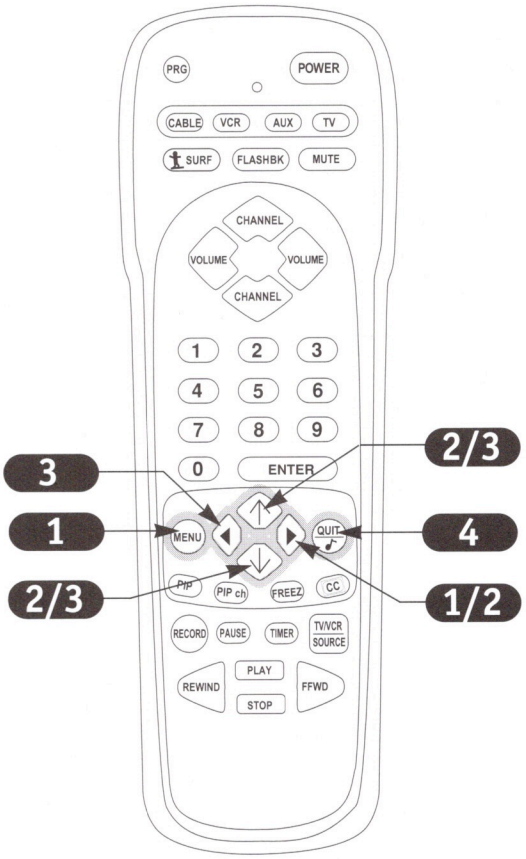
**1** Press MENU repeatedly to select the SPECIAL menu on your screen, then press the Right arrow.

**2** Use the Up/Down arrow to select the PIP option, then press the Right arrow.

**3** Use the Up/Down/Left/Right arrows to select and change the PIP menu options.

- **Size:** Selects the PIP inset picture size. Options are: Large, Medium, Small.
- **Volume:** Increase/decrease headphone output sound level.
- **Source:** Chooses the viewing source for the PIP inset picture. Options are: ANT./CABLE, Video 1, Video 2, Video 3, Video 4.
- **Position:** Moves the PIP inset picture to the Upper-Left, Upper-Right, Lower-Right, or Lower-Left side of the screen.

**4** Press QUIT to remove menu and return to TV viewing.




*Turn to the next page for a more detailed description of the PIP feature.*

*When Parental Control is set to Block programming, the PIP feature will not be available.*

*PIP = Picture-In-Picture*
*Think of PIP as a mini TV screen superimposed onto your main TV screen*

## YOUR PICTURE-IN-PICTURE FEATURE

The Picture-In-Picture (PIP) function allows you to put a smaller picture, called the "inset," on the bigger screen, or the "main" picture.

Normally you would need some other piece of equipment, like a VCR, to act as a tuner to receive and display a second channel at the same time. Your TV eliminates that need by giving you two tuners on one TV, on the Ant./Cable source. PIP is always available, no matter what equipment you have.

Don't want to miss any of the big game, but hate commercials? Just put the game in the PIP inset, and Surf your favorite channels on the main picture screen.

## WORKING WITH PIP

Just like your Entertainment Machine's main screen, PIP will need a source to take its image from. Set the main screen source to Antenna/Cable, then set the PIP source to Antenna/Cable, as an example. Then if you use the TV's tuner to pick your channels, you can enjoy 2-tuner PIP; channel scan capability for both the main screen and the PIP inset.

PIP can be used in any picture mode. Put Antenna/Cable in the inset while you watch a video tape, attached to Video 1. Have a DVD disk playing in the PIP inset, while you watch a videotape on the main screen.

SPECIAL

| | | | |
|---|---|---|---|
| CH. LANGUAGE ▷ | TO SET PIP | SIZE ▷ | |
| CAPTIONS ▷ | | VOLUME ▷ | |
| CAPTION/TEXT ▷ | | SOURCE ▶ | ✓ ANT./CABLE |
| MAIN SOURCE ▷ | | POSITION ▷ | VIDEO 1 |
| PIP ▶ | | | VIDEO 2 |
| XDS DISPLAY ▷ | | | VIDEO 3 |
| EZ HELP ▷ | | | VIDEO 4 |
| EZ DEMO ▷ | | | |

↑↓ MOVE ▷ NEXT ◁ BACK

## SOME TYPICAL PIP/MAIN SCREEN VIEWING SETUPS

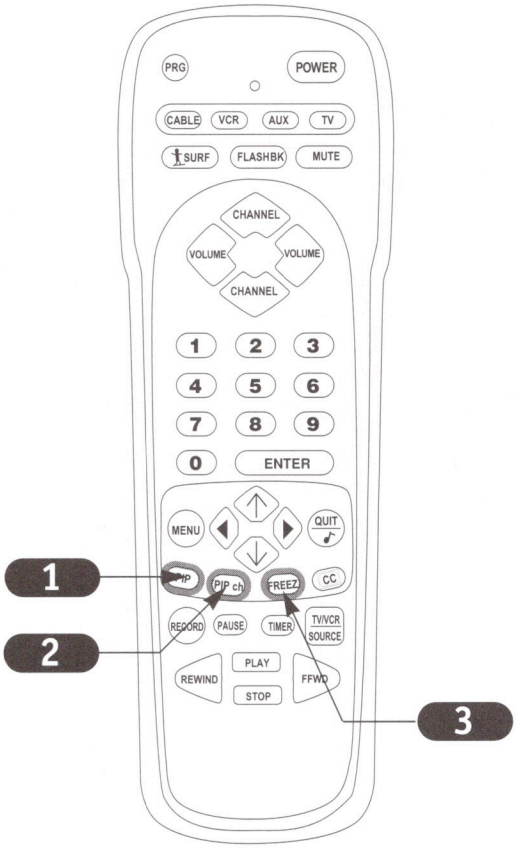
1. You want to watch a videotape, but keep scanning for another movie or game. Set the PIP source to Video 1, 2, 3, or 4 and you can watch the VCR and TV, swapping between the two.
2. You want to watch your favorite live program on Antenna/Cable on the main picture and when a commercial break appears, swap to the PIP inset; which has a videotape in the VCR ready to play, or Surf your favorite channels on Antenna/Cable source for the PIP inset.

*How to use PIP's other features*

**1** Press PIP to place the PIP inset on the main screen. Press PIP again to remove inset.

**2** For Ant./Cable source, with PIP inset on, press PIP ch to switch channel scan to the PIP inset, press PIP ch again to return channel scan to the main screen. (2-Tuner PIP)

**3** With PIP inset on, press FREEZ to freeze the image in the PIP inset, press FREEZ again to resume motion.




## WITH PIP ON OPERATIONS

**PIP Swap**

Use Up/Down arrows to switch PIP image with main picture.

**Channels**

Press CHANNEL Up/Down to change channels in the PIP inset - - if the source for the PIP inset is Antenna/Cable.
If the source is other equipment connected to the Video 1, Video 2, Video 3, or Video 4 jacks, tune channels on that equipment.

**PIP Inset Video Source**

Press TV/VCR SOURCE to switch video sources for the PIP inset between, Antenna/Cable, Video 1, Video 2, Video 3, and Video 4.

**Move PIP Inset around Screen**

Use the Left/Right arrows to move the PIP inset to a different location on the main screen.

## WITH PIP Off OPERATIONS

**FREEZ**

With PIP off, press FREEZ, the main picture image will be frozen and placed into the PIP inset. (Good for writing down phone numbers that appear on-screen.) This action will also automatically turn PIP on.

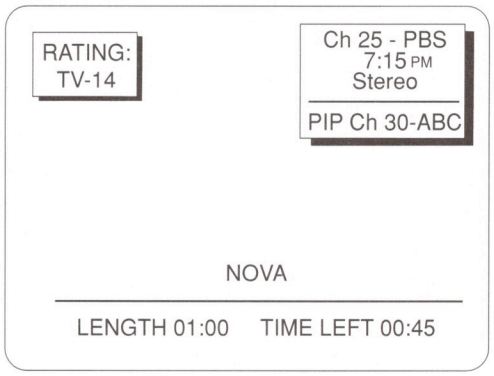
*If no equipment is connected to a source you select for the PIP inset, or if it is turned Off, the PIP inset will be black.*

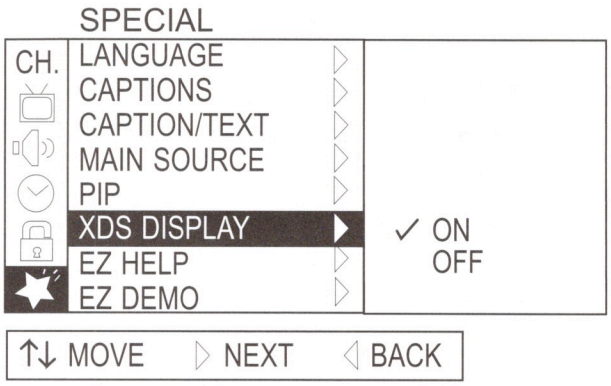
**Mini glossary**

| | |
|---|---|
| TUNER | A device that picks up broadcast signals and turns them into picture and sound. |
| A/V SOURCE | Other equipment connected to the TV Audio/Video source inputs on the TV back and side connections panel; Video 1, Video 2, Video 3, Video 4. |

## XDS Display

*Use the Extended Data Service to show in-depth program information*



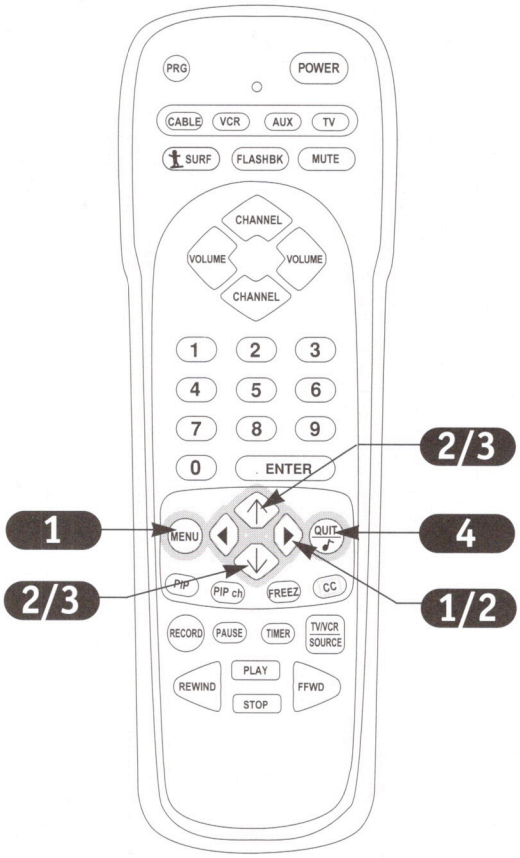




**1** Press MENU repeatedly to select the SPECIAL menu on your screen, then press the Right arrow.

**2** Use the Up/Down arrow to select the XDS DISPLAY option, then press the Right arrow.

**3** Use the Up/Down arrow to choose: On, or Off.
On, XDS Display will appear as channels are changed or ENTER is pressed,
Off, XDS Display will not appear.

**4** Press QUIT to remove the menu and return to TV viewing.




*At this printing, XDS data is only being provided by some broadcasting stations; and as a result, may only available on some channels.*

*Even though XDS data may be present, it may not be available during commercial or network breaks.*

### Mini glossary

| | |
|---|---|
| XDS | Extended Data Service - - if provided by the broadcaster, may show some or all of the following information: Channel/Time/Audio display, Network label if present, Title of program, Length of program in hours and minutes, and the Time remaining on the program in hours and minutes, Program content rating and If PIP is active, the PIP channel number. |

## Using the EZ Help Menu

*Need Help? Go to the on-screen EZ Help menu*

SPECIAL

| CH. | | | |
|---|---|---|---|
| LANGUAGE | | | NO SIGNAL ON CHANNEL |
| CAPTIONS | | | UNNECESSARY CH. IS MEMORIZ |
| CAPTION/TEXT | | | NO COLOR ON SCREEN |
| MAIN SOURCE | | | VOL. DIFF. BETWEEN CHANNELS |
| PIP | | | |
| XDS DISPLAY | | | |
| EZ HELP | | TO GET HELP | |
| EZ DEMO | | | |

↑↓ MOVE ▷ NEXT ◁ BACK

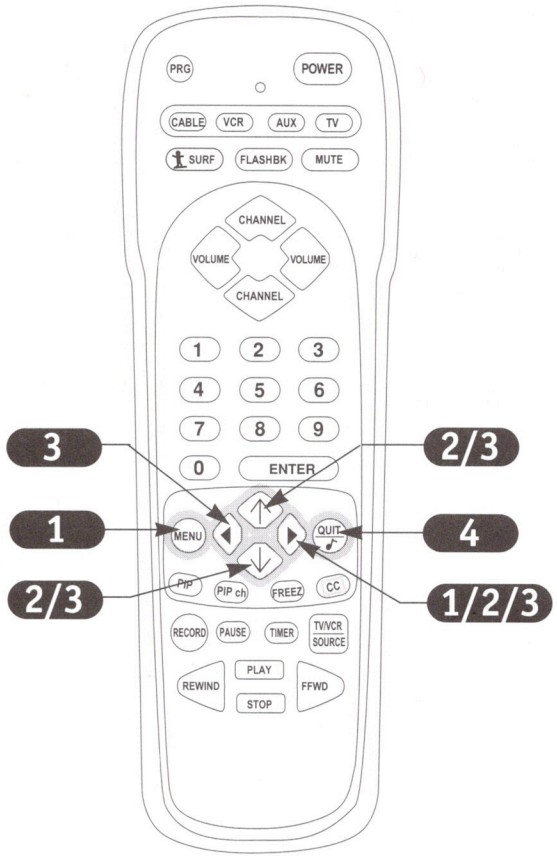
**1** Press MENU repeatedly to select the SPECIAL menu on your screen, then press the Right arrow.

**2** Use the Up/Down arrow to select the EZ HELP option, then press the Right arrow.

**3** Use the (Up/Down/Right/Left arrow keys) as described above to select the options listed below and correct the problem.

- **No Signal on Channel:** Performs a channel search.
- **Unnecessary Ch. is Memorized:** Allows you to select Added or Deleted for the current channel.
- **No Color on Screen:** Allows you to select different EZ Picture options.
- **Volume Difference Between Channels:** Allows you to select On or Off for the SoundRite option.

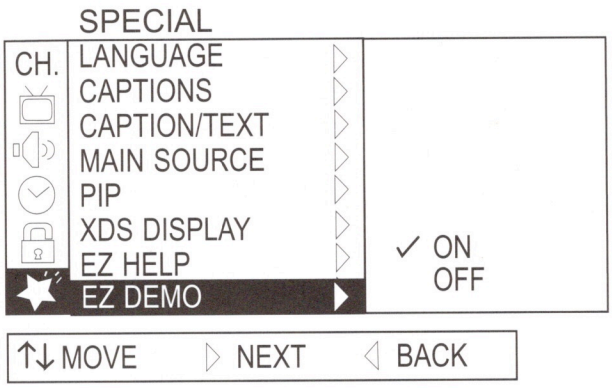
**4** Press QUIT to remove the menu and return to TV viewing.




*EZ Help offers solutions to common problems on one convenient menu.*

## EZ Demo Menu

*Your Entertainment Machine can show you the menus available*

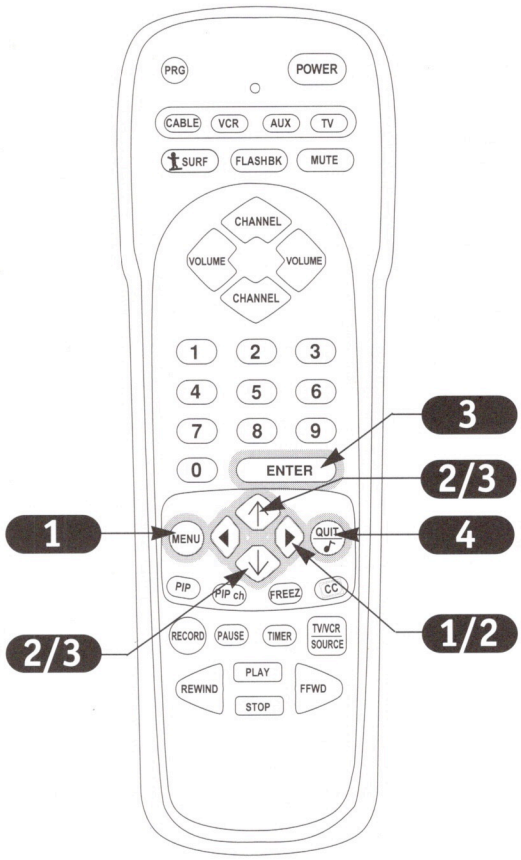



**1** Press MENU repeatedly to select the SPECIAL menu, then press the Right arrow.

**2** Use the Up/Down arrow to select the EZ DEMO option, then press the Right arrow.

**3** Use the Up/Down arrow to choose either:
On; then press ENTER. EZ Demo will continue to run *(even if the TV is turned off and on again)* until it is turned off in the SPECIAL menu.
Off; EZ Demo will not be active.

**4** Press QUIT to remove menu and to return to TV viewing.




*Even if the TV is turned off, the EZ Demo feature will continue to operate when the TV is turned on again.*

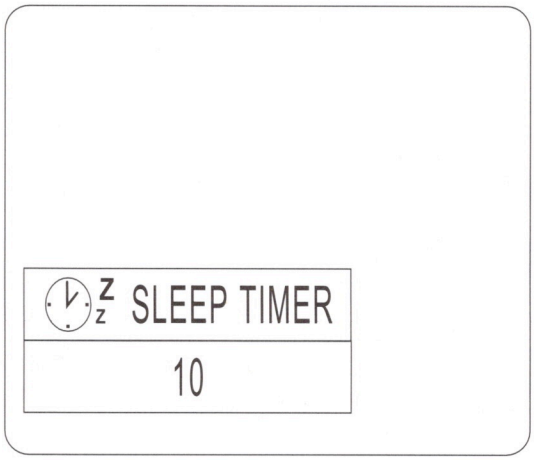
*The only way to turn EZ Demo off is to select Off, in the SPECIAL menu.*

**Mini glossary**

| | |
|---|---|
| EZ DEMO | Feature provides an automatic demonstration of the on-screen menus on your Entertainment Machine.<br>View and learn what features are available to you as EZ Demo cycles through the on-screen menus. |

## Sleep Timer

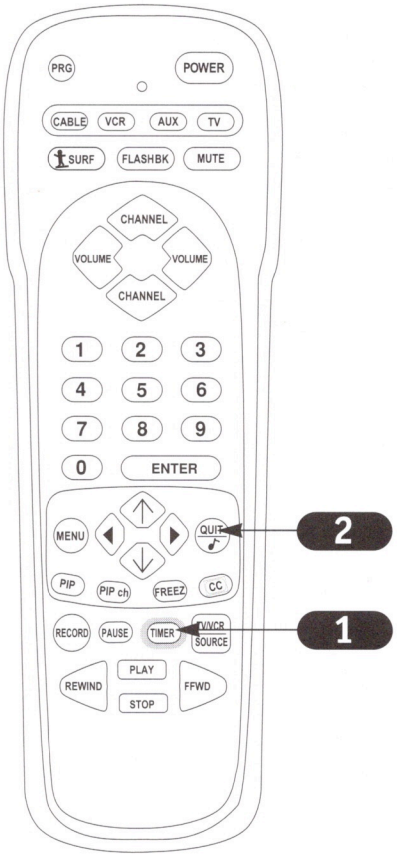
*Set the Sleep Timer to automatically turn the TV off, after the preset time has expired*




**1** Press TIMER to place the Sleep Timer menu on the screen. Press TIMER repeatedly to scroll through the different sleep timer settings and choose one of the preset turn-off times.

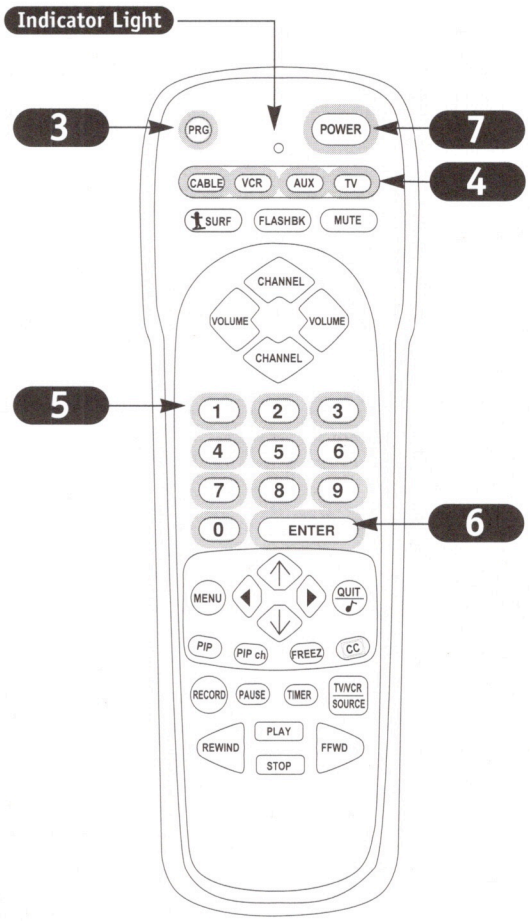
Options are:
Off, 10, 20, 30, 60, 90, 120, 180, or 240 minutes.

**2** Press QUIT to return to TV viewing.



## Programming the Remote

*Set up your remote control to operate other brand name devices*




**1** Turn on the device you want to program.

**2** On the chart on page 42/43, find the type of device you're programming, and then find the brand name. Make a note of the three-number code, you'll need it soon.

**3** Press and hold PRG. It's recessed so it doesn't get pushed accidentally. Use a small, blunt object. When the indicator light turns on, you can release PRG.

**4** Push the key name with the type of device you're programming (VCR, CABLE, AUX, TV).

**5** Using the NUMBER keypad, enter the three-number code you found on page 42/43.

**6** Press ENTER to save the code. (The indicator light will flash 3 times, then turn off to indicate the code is valid.)

**7** Point the remote at the device and push POWER. It should turn off. If not, try the other codes listed and continue from step three.

Note: To reset remote to factory settings, enter 9-1-1, in Step 5.

Note: After programming, be sure to press the mode key first to operate the device you have just programmed.

*Programming your Zenith remote may allow you to use one remote to work up to 7 different devices.*

*Not all devices will work with your Zenith remote control.*

**Mini glossary**

| | |
|---|---|
| PROGRAMMING | Procedure to set up remote to operate other equipment. |
| PRG | Programming mode key. |
| DEVICE | Infra-red remote controllable electronic accessory equipment. |

## Amplifier Volume Override

*Control the volume on your home audio system without changing modes*

**1** Find the code that operates your amplifier. Test it to make sure it's the correct one by following the procedure in "Programming Your Remote" on the previous page.

**2** Program your audio system into the CABLE or one of the available AUX modes.

**3** Select the mode you want amplifier volume to appear (e.g. TV).

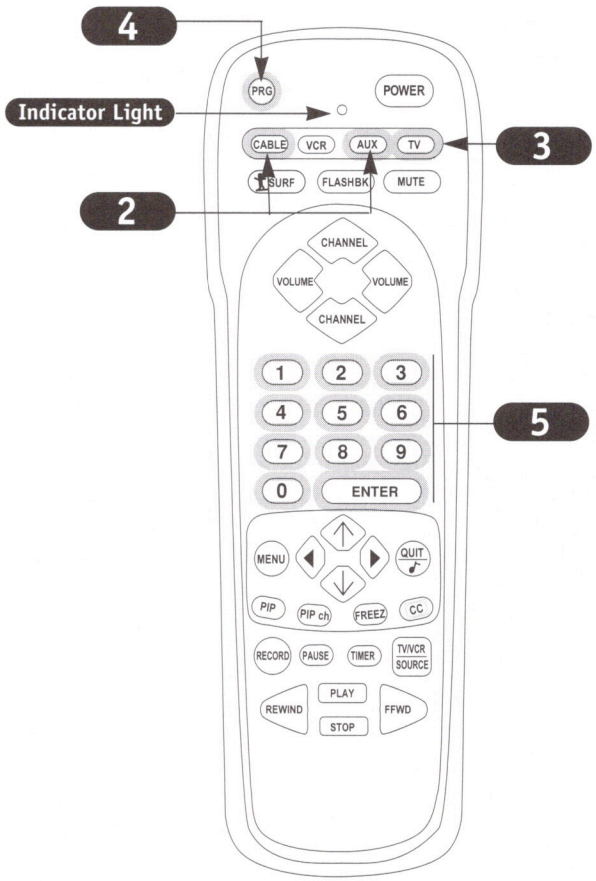
**4** Press and hold PRG on your remote until the indicator light stays lit, then release.

**5** Press 4-9-9; then ENTER on the remote. The indicator light will flash three times the code was accepted.

Audio system volume/mute now appears in the mode selected.
Note: You can also program Cable Box Volume and Mute control (if available) into your cable box mode (CABLE or AUX mode) by repeating the steps for programming on the previous page but entering 3-9-9, instead of a brand code, then pressing ENTER.

*To put everything back to normal, reprogram the mode from Step 3 with the original brand code.*

*If you can't find the code for your amplifier, use the Auto Find feature on page 41.*

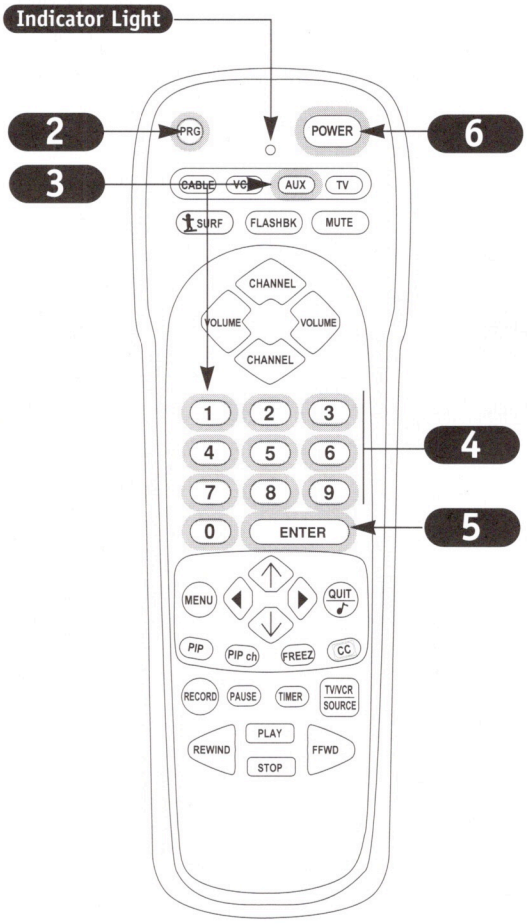



### Mini glossary

| | |
|---|---|
| AMPLIFIER | Audio device which sends sound to speakers, like an Audio Tuner, Receiver, or Amplifier. See Audio Tuners/Amp list on page 43. |
| CABLE BOX VOLUME/MUTE | Some cable boxes have volume controls. |

## Aux-1, Aux-2, Aux-3

*Control up to seven different devices with your remote*




1. Refer to the chart on page 42/43 to find the type and brand name of the device you're programming.
2. Press and hold down PRG with a small blunt object until the indicator light turns on, then release PRG.
3. Press AUX and the 1 on the NUMBER keypad at the same time (for AUX +1).
4. Using the NUMBER keypad, enter the three-number code for the device you've selected.
5. Press ENTER to save the code.
6. With the device turned on, point the remote at it and press POWER. It should turn off.
7. Repeat the steps for AUX+2, and AUX+3.

*Programming your Zenith remote may allow you to use one remote to work up to 7 different products or devices.*

*Some devices may not work with your Zenith remote control.*

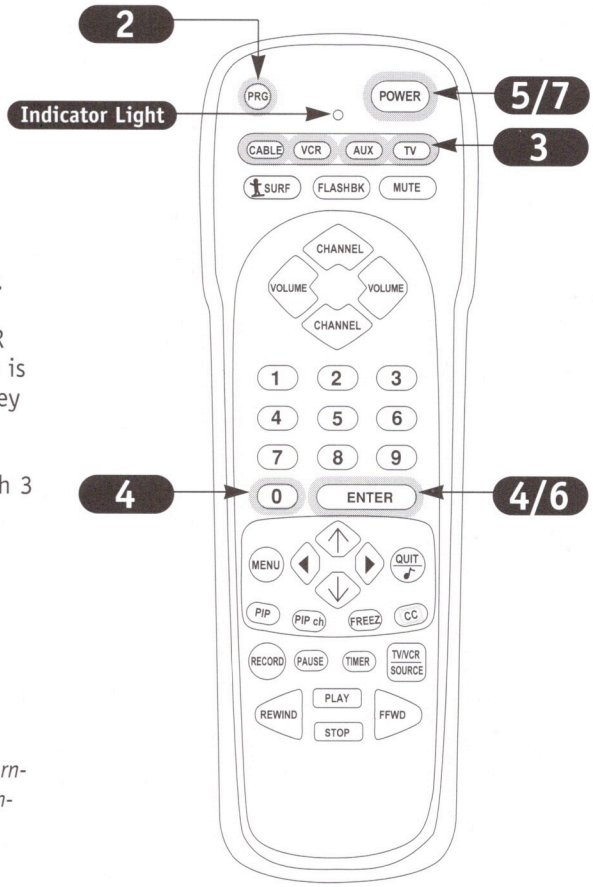
**Mini glossary**

AUX — Auxiliary equipment. Can be any equipment which does not have a dedicated key on your remote like Cable or VCR. Typically a second VCR, stereo system, audio tape deck, etc.

## Remote Control Auto Find

*Use Auto Find to automatically search and try all possible brand codes*

1. Turn on the device you want the remote to control.
2. Press and hold PRG until the indicator light turns on, then release PRG.
3. Press the key for the device you are trying to program (CABLE, VCR, AUX, TV).
4. Press 0-0-0 (zero-zero-zero), then press ENTER right away.
5. Aim the remote at the correct device and push the POWER key (The indicator light will turn off while the POWER key is pressed). Allow a second to pass, then push the POWER key again. Repeat until the device turns off.
6. Push ENTER to save the code (The indicator light will flash 3 times and then turn off).
7. Press POWER to turn the device back on.



*You can quickly get out of Auto Find by pressing PRG.*

*If the indicator light stays on while you press Power instead of turning off, all the codes have been tried and your device can't be controlled.*

**Mini glossary**

| | |
|---|---|
| AUTO FIND | Another way of finding a brand code for controlling auxiliary equipment such as a VCR, DVD player, etc. that is not available through the regular remote brand code programming method. |

*Find the codes you need to program your remote. On this page: TVs and VCRs*

## TVs

Admiral . . . . . 116 121 130 133
Adventura TV/VCR 154
Akai . . . . . 104
Amark . . . . . 103 146
AOC . . . . . 104
Bell & Howell . . . 121
Broksonic . . . . . 131 136
Candle . . . . . 139
Centurion . . . . . 119
Citizen . . . . . 121 139
Contec . . . . . 141
Coronado . . . . . 103
Crown . . . . . 103
Curtis Mathes . . . . 116 119 121
Daewoo . . . . . 149 159
Daewoo TV/VCR . . 148
Daytron . . . . . 119
Elektra . . . . . 121
Emerson . . . . . 103 104 123 124 131 136 145
Emerson TV/VCR . . 158
Fisher . . . . . 109 118
Funai TV/VCR . . . . 154
General Electric . . 106 107 114 116 117 161
Goldstar . . . . . 103 104 119 147
Goldstar TV/VCR . . 153
Hitachi . . . . . 102 103 129 163
J.C. Penney . . . . . 104 110 114 117 119
JVC . . . . . 125 132 164
KMC . . . . . 103
KTV . . . . . 103 104 138
Kurazai . . . . . 121
Lodgenet . . . . . 121
Logik . . . . . 121
LXI . . . . . 133 137
Magnavox . . . . . 103 112 113 117 119 127 128 139 165
Magnavox TV/VCR 173
Majestic . . . . . 121
Marantz . . . . . 104 120 155
Megatron . . . . . 146
Memorex . . . . . 121
MGA/Mitsubishi. . . 104 119 120 130 140 155
Montgomery Ward 103 104 105 113 114 119 121 130 133
NEC . . . . . 104 119
Panasonic . . . . . 106 107 160 166
Panasonic TV/VCR 174
Philco . . . . . 103 104 112 113 139
Philips . . . . . 112 113
Pioneer . . . . . 135
Portland . . . . . 103
ProScan . . . . . 116 157 162 167
Quasar . . . . . 106 107
RCA . . . . . 104 116 126 157 161 162 167 168
Realistic . . . . . 105 123 124
Sampo . . . . . 119
Samsung . . . . . 103 119 134 141
Sanyo . . . . . 108 109 118
Scott . . . . . 119 124
Sears . . . . . 103 108 109 110 111 118 134
Sharp . . . . . 103 105 122 133 137 156 169
Signature 2000 . . . 103 104 105 113 114 119 121 130 133
Sony . . . . . 115 143 151 170
Soundesign . . . . . 139
Sylvania . . . . . 112 113 117 119 127 128 139
Symphonic TV/VCR 154
Tatung . . . . . 106
Teknika . . . . . 103 112 121 124 139
Telerent . . . . . 103 121
Toshiba . . . . . 110 111 134 171
XR 1000 . . . . . 121
Yorx . . . . . 119
Zenith . . . . . 101 149 175
Zenith TV/VCR . . . 153 154 172

## VCRs

Admiral . . . . . 208 261
Adventura . . . . . 231
Aiwa . . . . . 231
Akai . . . . . 223 238 241
Audio Dynamics . . 202 218
Bell & Howell . . . . 206 247
Broksonic . . . . . 221 226 250 255
Canon . . . . . 214
Citizen . . . . . 209
Craig . . . . . 212
Curtis Mathes . . . 214 259
Daewoo . . . . . 244 246 248 254
Daytron . . . . . 236 246
DBX . . . . . 202 218
Emerson . . . . . 203 209 221 223 226 233 235 243 250
Fisher . . . . . 211 212 213 247
Funai . . . . . 231
General Electric . . 214 216 220
Goldstar . . . . . 209
Go Video . . . . . 256 262 263
Hitachi . . . . . 215 257
Instant Replay . . . 214 227
J.C. Penny . . . . . 214 215 218 227
JVC . . . . . 202 224 225 258
Kenwood . . . . . 202
Logik . . . . . 239
LXI . . . . . 209 231
Magnavox . . . . . 207 214 231
Marantz . . . . . 207 218
Marta . . . . . 209
Memorex . . . . . 206 212 214 231
Mitsubishi . . . . . 204 222 252 264
Montgomery Ward 208 214 216 219 231 249
Multi Tech . . . . . 239
NEC . . . . . 202 218
Orion . . . . . 250
Panasonic . . . . . 214 251 259
Pentax . . . . . 215
Philco . . . . . 207 214
Philips . . . . . 207 214 227
Pioneer . . . . . 210 215
Portland . . . . . 246
ProScan . . . . . 216 260
Quasar . . . . . 214 259
RCA . . . . . 215 216 220 227 240 242 249 260
Realistic . . . . . 206 208 212 214 231
Samsung . . . . . 220 230 238
Sansui . . . . . 239
Sanyo . . . . . 206 212 247
Scott . . . . . 204 205 233 243
Sears . . . . . 206 209 211 212 215
Sharp . . . . . 208 261
Shintom . . . . . 239
Signature 2000 . . . 208 214 216 219 231 249
Sony . . . . . 217 232 237
Sylvania . . . . . 207 214 227
Symphonic . . . . . 231
Tashiko . . . . . 209
Tatung . . . . . 202
Teac . . . . . 202 231
Teknika . . . . . 209 234
Toshiba . . . . . 205 215
XR 1000 . . . . . 239
Vector Research . . 204 218
Yamaha . . . . . 202 218
Zenith . . . . . 201 224 225 229 237

*Find the codes you need to program your remote.*
*On this page: Cable, Satellite, CD Players, Tape Decks and Audio Tuners and Amplifiers.*

## Cable Satellite

Allegro . . . . . 358 362
Allegro A/B Switch 361
Gemini . . . . . 305 331 338
General Electric. . . 367
General Instrument 304 305 306 307 308 309 310 318
Hamlin . . . . . 302 303 345 365 366
Jerrold . . . . . 304 307 308 309 310 318 360 363
Kale Vision . . . . . 335
Macom . . . . . 314 321
Magnavox . . . . . 334
NSC . . . . . 335 339 368 369 370
Oak . . . . . 311 332 342
Panasonic . . . . . 313 320
Paragon . . . . . 333
Philips . . . . . 347 350 352 354 355
Pioneer . . . . . 315 343
RCA DSS . . . . . 373
Regency . . . . . 329
Samsung . . . . . 335
Scientific Atlanta 316 323 336 364
Sprucer . . . . . 313
Standard Comp . . . 335
Stargate . . . . . 379
Texscan . . . . . 339 356 371
Tocom . . . . . 317 318 346
Unika . . . . . 348 362
United Satellite . . 344
Universal . . . . . 358 362
Vid Tech . . . . . 340
Video Way . . . . . 349
Viewstar . . . . . 354 355 372
Zenith . . . . . 301 353 374
Zenith Satellite . . 312 328 330 351 378

## Video DisK Players

Pioneer . . . . . 402 403
Sanyo . . . . . 401
Sony . . . . . 404
Zenith . . . . . 401

## Audio CD Players

Akai . . . . . 409 424 434
Crown . . . . . 410
Denon . . . . . 411
Fisher . . . . . 412 438
Goldstar . . . . . 460
Harman/Kardon . . 413
JVC . . . . . 415
Kenwood . . . . . 412 416 417 441
Magnavox . . . . . 421 422 433
Mitsubishi . . . . . 423 424
NAD . . . . . 425 426 447
Nakamichi . . . . . 427 428
NEC . . . . . 429
Onkyo . . . . . 430
Panasonic . . . . . 431 432
Philips . . . . . 421 433 434
Pioneer . . . . . 431 435
Quasar . . . . . 432
Radio Shack . . . . . 431 436 439 440 441
RCA . . . . . 437
Sanyo . . . . . 438 439
Scott . . . . . 440
Sharp . . . . . 441 442
Sony. . . . . 443 444 445
Soundesign . . . . . 461 498 501 502
Sylvania . . . . . 433
Teac . . . . . 446
Technics . . . . . 432 459
Toshiba . . . . . 447
Yamaha . . . . . 448
Zenith . . . . . 460 461 498 501 502

## Audio Tape Decks

Denon. . . . . 455
Harman/Kardon. . . 456
JVC . . . . . 457
Kenwood . . . . . 450
Onkyo . . . . . 458
Philips DCC . . . . . 454
Pioneer . . . . . 451 478
Sony. . . . . 452

## Audio Tuners/Amps

Denon. . . . . 462 463
Fisher . . . . . 464
Goldstar . . . . . 460
Harman/Kardon . . 465
JVC . . . . . 466
Kenwood . . . . . 468 469
Marantz. . . . . 472 503
Onkyo . . . . . 473
Philips . . . . . 475 476
Pioneer . . . . . 477 478 479
Radio Shack . . . . . 487 488
Realistic . . . . . 480
Sanyo . . . . . 481
Scott . . . . . 482
Sharp . . . . . 483
Sony. . . . . 489 490 491 492
Soundesign . . . . . 461 498 501 502
Teac . . . . . 494 495
Technics . . . . . 497
Yamaha . . . . . 496
Zenith . . . . . 460 461 498 501 502

## Remote Key Functions By Mode

*A complete list of key functions for your remote control*

| KEY NAME | TV Mode Zenith Code 101 | VCR Mode Zenith Code 201 | Cable Mode Zenith Code 353 | AUX Mode Zenith Code 401 |
|---|---|---|---|---|
| POWER | TV On/Off | VCR On/Off | Cable Box On/Off | AUX TV/DISC |
| CABLE | Selects Cable | Selects Cable | Selects Cable | Selects Cable |
| VCR | Selects VCR | Selects VCR | Selects VCR | Selects VCR |
| AUX | Selects Aux | Selects AUX | Selects Aux | Selects AUX |
| TV | Selects TV | Selects TV | Selects TV | Selects TV |
| SURF | Surf On/Off | VCR AM/PM | CABLE FC Fav Ch | AUX Audio |
| FLASHBK | TV Flashback | VCR Flashback | Cable Flashback | AUX Frame/Time |
| MUTE | TV Mute | TV Mute | TV Mute | TV Mute |
| CHANNEL (UP) | TV Channel Up | VCR Channel Up | Cable Channel Up | AUX Skip >> |
| CHANNEL (DOWN) | TV Channel Down | VCR Channel Down | Cable Channel Down | AUX Skip << |
| VOLUME (RIGHT) | TV Volume Up | TV Volume Up | TV Volume Up | TV Volume Up |
| VOLUME (LEFT) | TV Volume Down | TV Volume Down | TV Volume Down | TV Volume Down |
| 1 | TV Digit 1 | VCR Digit 1 | Cable Digit 1 | AUX Digit 1 |
| 2 | TV Digit 2 | VCR Digit 2 | Cable Digit 2 | AUX Digit 2 |
| 3 | TV Digit 3 | VCR Digit 3 | Cable Digit 3 | AUX Digit 3 |
| 4 | TV Digit 4 | VCR Digit 4 | Cable Digit 4 | AUX Digit 4 |
| 5 | TV Digit 5 | VCR Digit 5 | Cable Digit 5 | AUX Digit 5 |
| 6 | TV Digit 6 | VCR Digit 6 | Cable Digit 6 | AUX Digit 6 |
| 7 | TV Digit 7 | VCR Digit 7 | Cable Digit 7 | AUX Digit 7 |
| 8 | TV Digit 8 | VCR Digit 8 | Cable Digit 8 | AUX Digit 8 |
| 9 | TV Digit 9 | VCR Digit 9 | Cable Digit 9 | AUX Digit 9 |
| 0 | TV Digit 0 | VCR Digit 0 | Cable Digit 0 | AUX Digit 0 |
| ENTER | TV Enter | VCR Enter | Cable Enter | Aux Display |
| MENU | TV Menu | VCR Menu | Cable Menu | AUX Program |
| UP ARROW | TV Select Up | VCR Select Up | Cable Up Arrow | AUX Part |
| DOWN ARROW | TV Select Down | VCR Select Down | Cable Down Arrow | AUX Random |
| LEFT ARROW | TV Adjust Left | VCR Adjust Left | Cable Left Arrow | AUX x3 FAST < |
| RIGHT ARROW | TV Adjust Right | VCR Adjust Right | Cable Right Arrow | AUX x3 FAST > |
| QUIT | TV Surr Sound | VCR Quit | Cable Quit | AUX Clear |
| PIP | TV PIP On/Off | VCR+ | Day Up | AUX Repeat-Side |
| PIP CH | TV PIP Channel Swap | VCR Channel Map | Day Down | AUX Repeat-A-B |
| FREEZ | TV PIP Freeze | VCR Search | Cable Pg Up | AUX Repeat-Chap |
| CC | TV Closed Captns | VCR Memory | Cable Pg Down | AUX Memory |
| TIMER | TV Timer | VCR Timer | Cable Timer | AUX Still |
| TV/VCR SOURCE | TV Sources | TV Tuner or VCR Tuner | Cable Info | AUX TV/Disc |
| RECORD | VCR Record | VCR Record | Cable Buy | AUX Edit |
| PAUSE | VCR Pause | VCR Pause | Cable Guide | AUX Pause |
| REWIND | VCR Rewind | VCR Rewind | VCR Rewind | AUX Scan << |
| PLAY | VCR Play | VCR Play | VCR Play | AUX Play |
| STOP | VCR Stop | VCR Stop | VCR Stop | AUX Stop/Eject |
| FFWD | VCR Fast Forward | VCR Fast Forward | VCR Fast Forward | AUX Scan >> |

MBR3458Z (124-233-03)

*Some of the functions shown above may not be available on your equipment.*

## *Caring for your Entertainment Machine*

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine. Be sure to turn the power off and pull out the plug before you begin any cleaning.

### Screen Cleaning

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine.

### Cabinet Cleaning

1. Use a soft cloth with a mild soap solution to wipe the cabinet.

2. Rinse the cloth and wipe the cabinet again.

3. Let the cabinet air-dry before turning your Entertainment Machine on.

### Wood Cabinet

Use a quality wood cleaner and polish. This will protect the Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

### Extended Absence

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV before leaving.

*If you unplug your Zenith Entertainment Machine, you may have to reset the clock using the TIME menu described earlier. See page 25.*

## Trouble Shooting

*Some quick and easy tips to fixing problems yourself*

| SYMPTOMS | SOLUTIONS |
|---|---|
| **Snowy picture and poor sound.** | • Check your antenna connection or location. |
| **Multiple images or 'ghost shadows.'** | • Check your antenna direction and/or location.<br>• Make sure the wire from your antenna to your Entertainment Machine is properly connected. |
| **Interference: Sharp lines across the screen and poor sound.** | *The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment*<br>• If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off. |
| **Normal picture but no sound.** | • Check volume levels.<br>• Make sure the TV is not muted.<br>• Try another channel. The problem may be the broadcast, not your Entertainment Machine.<br>• Are the Audio A/V cables properly installed? |
| **No picture and poor sound.** | • Are you in TV or cable tuning mode, and should be in the other?<br>• Make sure output channels on all A/V equipment are on the same channel (3 or 4).<br>• Check that all connections are tight. |
| **No picture and no sound.** | • Is the AC power plugged in?<br>• Check that your AC power outlet works. (Test it by plugging in something else or try another plug.)<br>• Make sure your brightness and audio controls are set properly.<br>• Try another channel. The problem may be with the broadcast. |
| **No color, but the sound is O.K.** | • Check the color control in the PICTURE menu.<br>• Try another channel. The problem may be with the broadcast. |
| **Picture has a big black box on it, but the sound is O.K.** | • Is Text model selected but no text is available on the broadcast?<br>• The CC (closed caption) option may be in Text mode. Select OFF in the Captions menu (see page 29). |
| **Picture has two horizontal black bars, one on top and one on bottom.** | • Your program is in letterbox. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in movies, you are actually seeing MORE of the program when you see those bars. |
| **Remote control doesn't work.** | • Make sure the batteries are fresh and installed properly. Does indicator light work, is it nice and bright?<br>• Is remote in TV mode? Press TV for TV mode. |
| **Menu options can't be changed or selected.** | • Try unplugging your Entertainment Machine for a few minutes, then plug it back in. (Don't forget to reset the clock.) |
| **No picture or sound when a non-cable source is selected.** | • Check to see if the source equipment has been turned on.<br>• Make sure that the connections are secure on the back of your TV and on the source. |

Continued on next page

| SYMPTOMS | SOLUTIONS |
|---|---|
| **Weak or no Stereo Sound when using a stereo VCR.** | • Check to see if all the connections are secure.<br>• Look in the SOUND menu to see if all the settings are correct. |
| **With no key presses, on-screen menus continue to appear.** | • EZ Demo feature is operating. Turn EZ Demo off in the SPECIAL menu. |

## PIP Problems

| | |
|---|---|
| **PIP does not work.** | • Is Parental Control set to block programming? No PIP with Parental Control block on. |
| **The PIP inset is black or lacks contrast when VIDEO is the PIP source.** | • Check that all the wires are connected properly.<br>• PIP source turned on? |
| **The PIP inset is "snow" when the source is Video.** | • Look to see if the TV/VCR button on your VCR has the TV selected. |
| **There is no picture in the PIP inset when using VIDEO for the PIP and Antenna/Cable for the main picture.** | • Look to see if the TV/VCR button on your VCR has the TV selected. |

## Parental Control Problems

| | |
|---|---|
| **Can't tune to programs listed in TV guide.** | • Is Block option not allowing programs to appear?<br>• Parental Control set to block rating? |
| **Parental Control doesn't work.** | • Has Block Time expired? Lock On/Off turned Off? No hours set? |
| **Can't watch TV or VCR.** | • Is Parental Control block on? Are Aux inputs blocked? Do you know the password to unblock Parental Control? |
| **Programs with a rating of PG-13, R, NC-17, and X do not appear.** | • Is Parental Control set to block programs with those ratings. |
| **Can't view TV-PG program.** | • Is TV-PG set to be blocked in Parental Control? Reset restrictions to PG-13, then TV-PG rated programs will appear. |
| **TV turns itself off, or on by itself.** | • Sleep Timer set to turn TV off.<br>• Is the On/Off Timer set to turn TV on and off at preset times?<br>• Power Failure? |
| **PIP does not work.** | Is Parental Control set up to block programming from appearing? PIP will not function if a Parental Control block is active. |

Continued on next page

*Some quick and easy tips to fixing problems yourself*

| SYMPTOMS | SOLUTIONS |
|---|---|
| **Channel/Time Display does not disappear after a period of time.** | • Display will not function properly if a selected source does not have any equipemnt connected to it. |
| **EZ Help menu shows only two options.** | • A Video source is the selected source. Main screen source has four EZ Help options. |

*A list of definitions for some of the words found in this operating guide*

**A/V CABLES** Audio and Video cables. Three cables bunched together—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

**A/V DEVICE** Equipment that produces picture and sound (VCR, DVD, cable box, or television).

**ADDED** Includes channels that you want to watch in addition to the channels found by EZ Program.

**AMPLIFIER** An external device that amplifies sound from a television, CD player, VCR, DVD, etc.

**ANTENNA** The physical receiver of television signals sent over the air. (A large metal piece of equipment does not always have to be visible for your home to be using an antenna.)

**CABLE** Cable Box operating mode on the remote.

**CABLE SERVICE** Programming provided by a cable company.

**CAPTIONS/TEXT** A form of subtitling that writes out the dialog for your program.

**DELETED** Removes channels that you don't watch from the channels found by EZ Program.

**ICON** A small picture on your screen representing a function or menu item.

**INPUT** Refers to the jack that receives a signal into the TV, VCR or other A/V device.

**JACK** A connection on the back of a TV, VCR, or other A/V device. This includes the RF jack that is threaded with a place for a small wire in the center, and the Audio/Video jacks that have a bigger opening and are color-coded.

**MODE** The equipment that the remote control is currently controlling (TV, VCR, Cable, etc.) is the remote's operating "mode."

**MONO SOUND** Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.

**OHM RF CABLE** The wire that comes from an off air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the large threaded jack on the back of your TV.

**OUTPUT** Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

**PIP** This is the most common way to refer to the Picture-in-Picture (PIP) option.

**SECOND AUDIO PROGRAMMING/SAP** Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing 2nd Audio/SAP often refers to listening to audio in another language, such as Spanish or French.

**SIGNAL** Picture and sound traveling through cable, or over the air, to your television screen.

**SOURCE** The term for the equipment or connection that provides audio and video (picture and sound) to your Entertainment Machine. VCR, DVD players, or Cable Boxes are examples of sources.

**STEREO SOUND** Stereo (stereophonic) sound refers to audio that's divided into right and left sides or channels.

**SURF** Use the Surf feature to create a special list of your favorite channels. You can access the "Surf" channels by pushing SURF on the remote.

**TUNER** Device that picks up broadcast signals and turns them into picture and sound.

## Notes

# Recommended Video Accessories

## INDOOR AMPLIFIED ANTENNA

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# Your Zenith Direct-View TV Warranty

**Direct-View Color TV** Welcome to the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine™. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state-to-state within the U.S.A.

## ZENITH'S RESPONSIBILITY

**Service Labor** During a period of 90 days from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed, as determined by the Zenith service center, as a result of manufacturing defects.

**Parts** New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

**Home Service** Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)

**Not Covered** This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product voids this warranty in its entirety.

**THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.**

## OWNER'S RESPONSIBILITY

**Effective Warranty Date** Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

**Operating Guide** Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.

**Carry-In Service** Models under 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.

**Antenna** Reception problems caused by inadequate home antenna or faulty antenna connections are the owner's responsibility.

**Important** Product Registration—Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

**Warranty Service** For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance And Troubleshooting" in your operating guide. You might avoid a service call.

**ZENITH ELECTRONICS CORPORATION**
**Zenith Response Center**
201 James Record Rd., Building 3
Huntsville, AL 35824
Telephone (877) 936-4849
Mon-Fri, 7:00 a.m.-8:00 p.m. CST
Sat, 8:00 a.m.-5:00 p.m. CST
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Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tube in your new television. Our Picture Tube Protection Plan enables you to avoid any unexpected picture tube repair expenses and keep your television in top condition. It guarantees you a genuine Zenith replacement picture tube and service from a Zenith authorized service center.

***Be sure to send in the Product Registration Card. We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tube. For additional information call (256) 774-4088.***

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